THE WORLD'S

TELEPHONES

A Statistical Compilation as of January 1982

AT&T

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The World's Telephones

a Statistical Compilation as of January 1, 1982

THE WORLD'S TELEPHONES

The World's Telephones is published annually to provide a statistical compilation of global telephone information. It displays global telephone distribution and facilities by countries within geographical regions. The number of telephones in relation to the population served is a significant measure of comparative development. The ever-higher number of telephones is symptomatic of the increased usage of the telephone (for local, long distance, and international calling) and of the demand for a great variety of new products and services.

The data in the World's Telephones have taken a year to collect, compile, and publish. The statistics are based on questionnaires sent to telephone administrations and companies throughout the world.

A limited number of copies are made available, on request, to educational institutions, libraries, and members of the worldwide telecommunications industry.

Permission to reprint material should be obtained from the editor, and AT&T's The World's Telephones should be credited.

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INTRODUCTION TO
THE WORLD'S TELEPHONES

As you can see, this year's edition of The World's Telephones is very different from those of previous years. Changes have been made in the content and format of the book in an effort to make it more readable and usable. But the changes go beyond appearance. For the past 69 years, The World's Telephones has been manually compiled. This year, for the first time, a computer database was constructed as part of our program for modernizing the assembly and production of the book. This will not only allow for more sophisticated data manipulation, but it will also compress our time schedule, making it possible for you to receive the book at an earlier date.

This year's edition marks a transition stage. More changes will be implemented next year, and your opinions will enable us to shape next year's book. For this reason, please take a few minutes to fill in the tear-out questionnaire in the back of this year's book. Your reactions to the publication are invaluable. Every effort will be made to incorporate your ideas into next year's edition, making it more tailored to your needs.

The addition of world maps, bar graphs, three dimensional graphs, and other graphs is perhaps the most apparent difference this year; they are designed to make the book more attractive and to help you visualize the data. They may also be a useful tool at meetings and presentations. You will also notice that the Country Notes section is new. We are no longer using footnotes within the body of the tables. Thus, we strongly recommend that you read all notes pertaining to a country before looking at its data. The notes section reports anomalies in the data and indicates missing information for each reporting country. Without reading this information, you may misinterpret or misunderstand the data in the tables.

Non-reporting countries will no longer appear on the tables. For you convenience, we have included a chart that lists these countries and the last edition of The World's Telephones in which they reported data.

An important policy change has also been instituted this year. The World's Telephones will no longer make any estimations or projections when a country does not report information. Nor will we change any figure that a country has given in an attempt to make it more reliable or consistent. The data in the book should reflect the countries' reports--not some hypothetical equation. Since estimations were made in previous years, this may account for some unusually large percentage changes from last year to this year.

We hope that you are receptive to the changes we have made in The World's Telephones and that you will find it to be a useful and informative manual.

GENERAL NOTES

The world total is incomplete because 36% of the world's telephone administrations and operating companies did not supply data for this edition.

Variations in percents (either positive or negative) between the reported population data and those reported in the January 1, 1981, edition may be attributed to:

A. Different sources for the data

B. Overstatement or understatement of previous estimates

C. Changes in date that information is reported (end of year vs. midyear)

D. Availability of current census information (that was not previously available)

A significant or unusual percent variation (either positive or negative) between the data reported for EMSS- and/or ESS-controlled telephones and those in the January 1, 1981, edition may be attributed to the reporting country's combining EMSS and ESS data into one total and reporting it without further breakdown (as noted) for EMSS or ESS category. This may have happened in either January 1, 1981, or January 1, 1982.

Because of overlapping of exchange and service areas in relation to census areas, some distortion is possible between cities' counts for total telephones, main telephones, and population versus those reported for the country or the area.

Calculations are subject to computer rounding and may reflect this adjustment. For clarity of presentation, however, this variation is not explicitly stated in the table entries.

Those readers who desire continuity of data may want to retain copies of previously published editions. This is recommended because:

-- Not all countries are able to report data annually.

-- When more current data are not available, data from telephone development tables may be useful.

Zeroes appear throughout the tables and indicate that a country does not have anything in that category. Dashes appearing in the tables are used to indicate that a country did not report that particular piece of information.

THE INTERNATIONAL TELEPHONE WORLD NUMBERING ZONE PLAN

The International Telegraph and Telephone Consultative Committee (C.C.I.T.T.) issues recommendations concerning telephone message service. The United States and other countries follow these recommendations so that compatibility of operation, transmission, and services is possible for international telephone communications.

One of the recommendations relates to a worldwide numbering plan that provides each customer with a unique international telephone number.

In 1963, a special group of the C.C.I.T.T. developed a numbering plan for all of the member countries of the United Nations. The plan is based on the level of national telephone development forecast by each country for the year 2000.

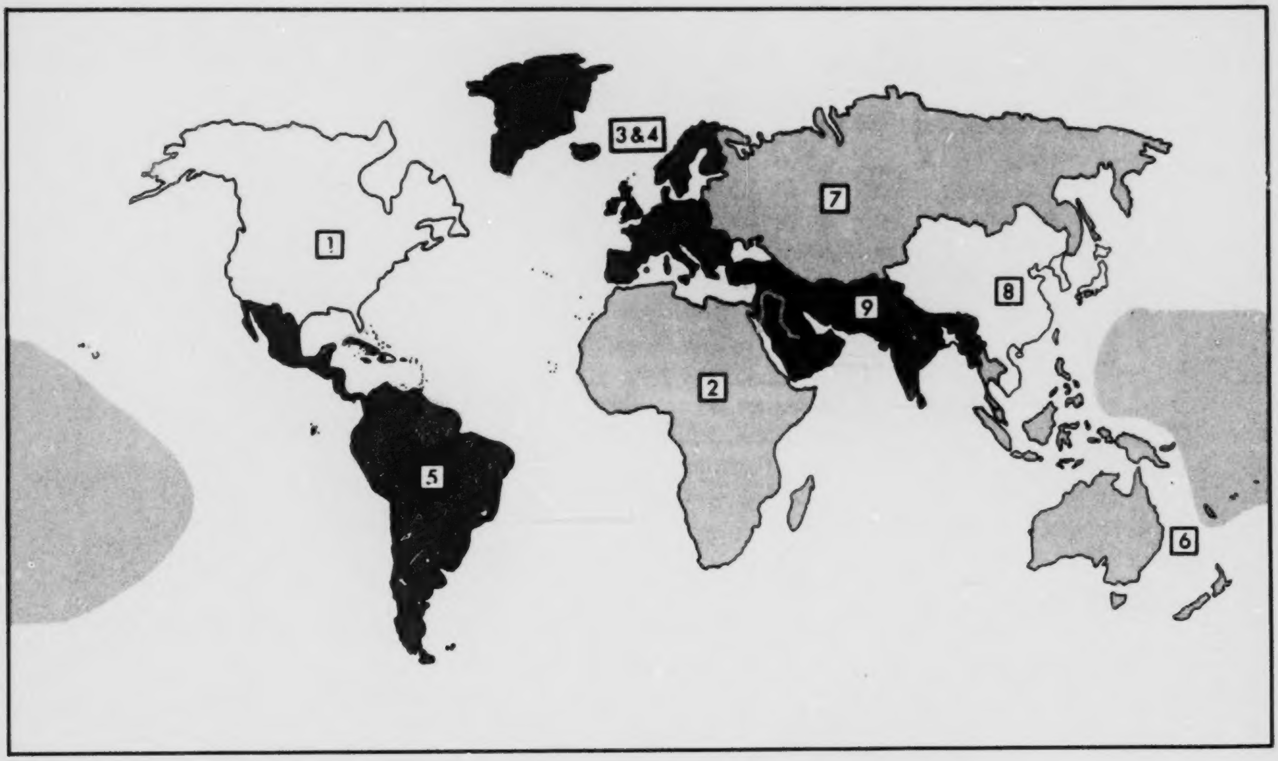
The plan assumes "All Number Calling" and assigns to each country a country code of 1, 2, or 3 digits. Thus, a world telephone number consists of the country code followed by the national number of the subscriber's station. The plan provides for a maximum of 12 digits in the world number, with the actual number of digits varying from country to country and within a country. The number of national telephones forecast for the year 2000 determined the number of digits in the country code. Those countries with the highest requirements have been assigned a single-digit code and those with the lowest requirements have been assigned a three-digit country code.

A country code is not always assigned to a single country. Those special zones of the world wherein a number of countries have or plan to have an integrated telephone numbering scheme have been assigned a single country code that applies to all of the sovereign countries within that integrated numbering plan. Because the grouping of countries increases the collective telephone requirements for the year 2000, two special cases -- North America and the Union of Soviet Socialist Republics -- have been assigned single-digit country codes, and each constitutes a separate World Zone.

The specific assignment of country codes was achieved by dividing the world into eight geographic zones (World Zones) and assigning a digit to each zone. All countries within a zone are assigned codes beginning with that digit. Because Europe consists of a great number of countries with highly developed telephone networks requiring more two-digit country codes than can be accommodated by a single initial digit, two zone digits have been assigned.

Composition of national telephone numbers is determined by each individual country. Therefore, there are many variations in national numbering plans.

This edition of The World's Telephones incorporates a format and additional data relative to the International Telephone World Numbering zone plan.



International Telephone World Numbering Zones

1-North America
2-Africa
3 & 4-Europe
5-South and Central America
6-South Pacific
7-Union of Soviet Socialist Republics
8-Far East
9-Middle East and Southeast Asia

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COUNTRIES BY WORLD ZONES

Zone 1

North America

Anguilla
Antigua
Bahamas
Barbados
Bermuda
Canada
Cayman Islands
Dominica
Dominican Republic
Grenada
Jamaica
Montserrat
Puerto Rico
St. Kitts-Nevis
St. Lucia
St. Pierre & Miquelon
St. Vincent
Trinidad & Tobago
Turks & Caicos
United States
Virgin Islands, British
Virgin Islands

Zone 2

Africa

Algeria
Angola
Ascension Island
Benin
Botswana
Burundi
Cameroon
Cape Verde
Central African Republic
Chad
Comoros
Congo
Djibouti
Egypt
Equatorial Guinea
Ethiopia
Gabon
Gambia
Ghana
Guinea
Guinea-Bissau
Ivory Coast
Kenya
Lesotho
Liberia
Libya
Madagascar
Malawi
Mali
Mauritania
Mauritius
Morocco
Mozambique
Namibia (Southwest Africa)
Niger
Nigeria
Reunion
Rwanda
St. Helena
Sao Tome & Principe
Senegal
Seychelles
Sierre Leone
Somalia
South Africa
Bophuthatswana
Ciskei
Transkei
Venda
Sudan
Swaziland
Tanzania
Togo
Tunisia
Uganda
Upper Volta
Zaire
Zambia
Zimbabwe (Rhodesia)

COUNTRIES BY WORLD ZONES

Zone 3 and 4

Europe

Albania
Andorra
Austria
Belgium
Bulgaria
Cyprus
Czechoslovakia
Denmark
Finland
France
German Democratic Rep.
Germany, Federal Rep.
Guernsey-- Channel Islands
Jersey -- Channel Islands
Gibraltar
Greece
Hungary
Iceland
Ireland
Italy
Liechtenstein
Luxembourg
Malta
Monaco
Netherlands
Norway
Poland
Portugal
Romania
San Marino
Spain
Sweden
Switzerland
United Kingdom
Yugoslavia

Zone 5

South and Central America

Argentina
Belize
Bolivia
Brazil
Chile
Colombia
Costa Rica
Cuba
Ecuador
El Salvador
Falkland Islands
French Guiana
Guadeloupe
Guatemala
Guyana
Haiti
Honduras
Martinique
Mexico
Netherlands Antilles
Nicaragua
Panama
Paraguay
Peru
Suriname
Uruguay
Venezuela

COUNTRIES BY WORLD ZONES

Zone 6

South Pacific

- American Samoa
- Australia
- Banaba Ocean Island
- Brunei
- Cocos Island
- Cook Islands
- Fiji
- French Polynesia
- Guam
- Indonesia
- Kiribati (Gilbert Island)
- Kiritimati (Christmas Island)
- Kwajalein
- Malaysia
- Midway Islands
- Nauru
- New Caledonia
- New Zealand
- Niue
- Norfolk Island
- Northern Marianas
- Palau (Micronesia)
- Papua New Guinea
- Philippines
- Pitcairn Islands
- Singapore
- Solomon Islands
- Thailand
- Tokelau Island
- Tonga
- Tuvalu
- Vanuatu (New Hebrides)
- Wake Island
- Wallis & Futuna
- Western Samoa

Zone 7

Union of Soviet Socialist Republics

Zone 8

Far East

- Bangladesh
- China (Mainland)
- China (Taiwan)
- Hong Kong
- Japan
- Kampuchea
- Korea, Dem. Peo. Rep.
- Korea, Rep. of
- Laos
- Macao
- Vietnam

COUNTRIES BY WORLD ZONES

Zone 9

Middle East and Southeast Asia

- Afghanistan
- Bahrain
- Bhutan
- Burma
- India
- Iran
- Iraq
- Israel
- Jordan
- Kuwait
- Lebanon
- Maldives
- Mongolia
- Nepal
- Oman
- Pakistan
- Qatar
- Saudi Arabia
- Sri Lanka
- Syria
- Turkey
- United Arab Emirates
- Yemen (Aden)
- Yemen (Sanaa)

Telephones by the International World Numbering Zone Plan

Table 1:

INTERNATIONAL TELEPHONE WORLD NUMBERING ZONES	TOTAL IN SERVICE	PERCENT OF WORLD	PER 100 POP.	PRIVATELY OPERATED NUMBER	PERCENT PRIVATELY OPERATED
Zone 1	198,882,227	40.9	74.2	195,425,557	98.3
Zone 2	6,135,956	1.3	1.8	381	0.0
Zone 3 & 4	172,098,479	35.4	38.0	37,516,246	21.8
Zone 5	23,011,120	4.7	6.7	7,238,256	31.5
Zone 6	5,407,086	1.1	2.0	626,426	11.6
Zone 7	—	—	—	—	—
Zone 8	71,296,677	14.7	26.5	3,139,554	4.4
Zone 9	9,818,924	2.0	1.1	168,935	1.7
World(Total)	486,055,001	100.0	17.1	243,520,247	50.1

Table 2:

INTERNATIONAL TELEPHONE WORLD NUMBERING ZONES	TOTAL IN SERVICE	AUTOMATIC NUMBER	PERCENT AUTOMATIC
Zone 1	198,882,227	197,382,931	99.2
Zone 2	6,135,956	4,539,416	74.0
Zone 3 & 4	172,098,479	168,795,194	98.1
Zone 5	23,011,120	22,104,533	96.1
Zone 6	5,407,086	4,707,014	87.1
Zone 7	—	—	—
Zone 8	71,296,677	69,693,712	97.8
Zone 9	9,818,924	8,952,817	91.2
World(Total)	486,055,001	475629799	97.9

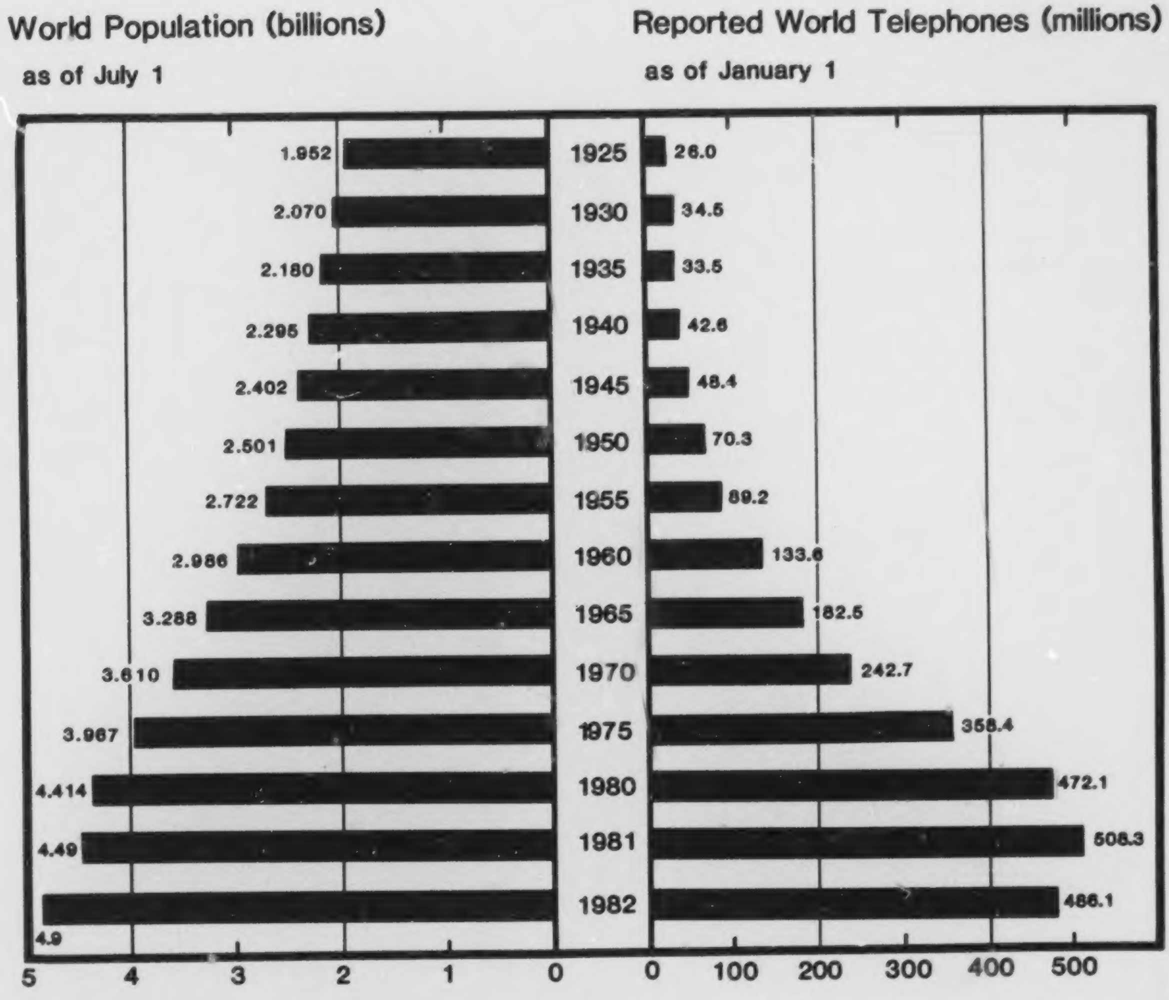
Table 3:

INTERNATIONAL TELEPHONE WORLD NUMBERING ZONES	TOTAL NUMBER OF REPORTED TELEPHONES IN SERVICE AS OF JANUARY 1,	
	1982	1977
Zone 1	198,882,227	169,389,263
Zone 2	6,135,956	3,890,259
Zone 3 & 4	172,098,479	124,743,318
Zone 5	23,011,120	13,708,371
Zone 6	5,407,086	9,204,892
Zone 7	—	18,000,000
Zone 8	71,296,677	52,652,890
Zone 9	9,818,924	5,921,826
World(Total)	486,055,001	397,510,819

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Growth of Population and Reported Telephones

THE TWO PYRAMID BAR GRAPHS BELOW PRESENT AN INTERESTING CONTRAST BETWEEN TRENDS IN THE GROWTH OF THE WORLD'S TELEPHONES VS. THE GROWTH OF THE WORLD'S POPULATION. DATA IS PRESENTED IN FIVE-YEAR INCREMENTS UNTIL 1980 AND IN ANNUAL INCREMENTS THEREAFTER.



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Countries reporting over 1,000,000 telephones:

Highest telephones per 100 population for a city with over 200,000 telephones

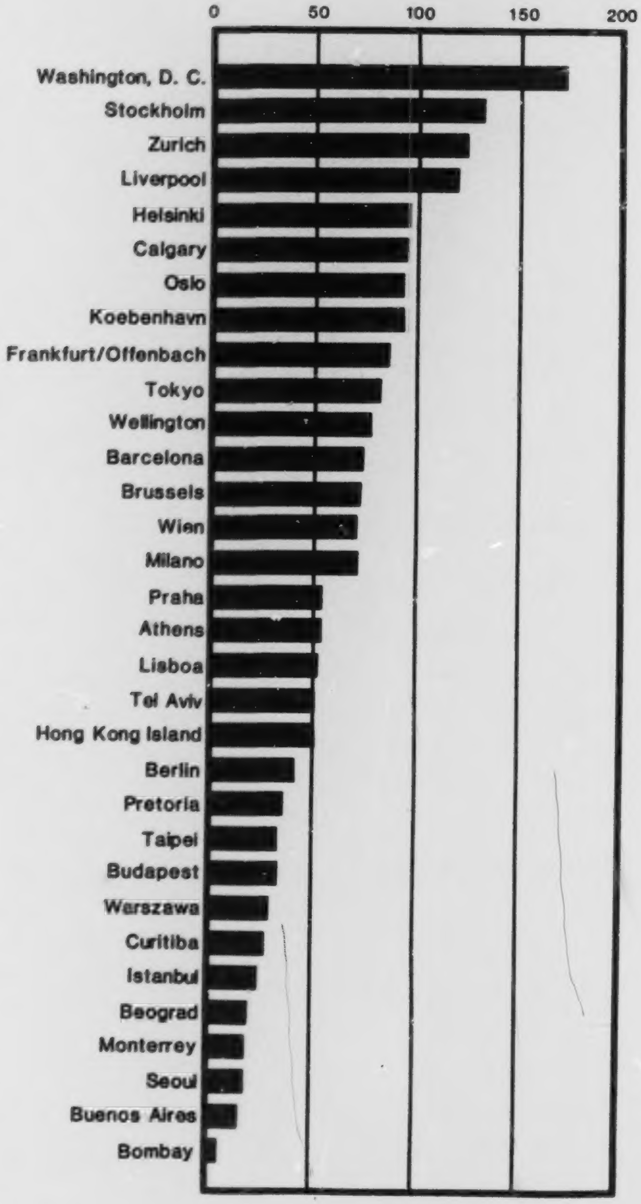

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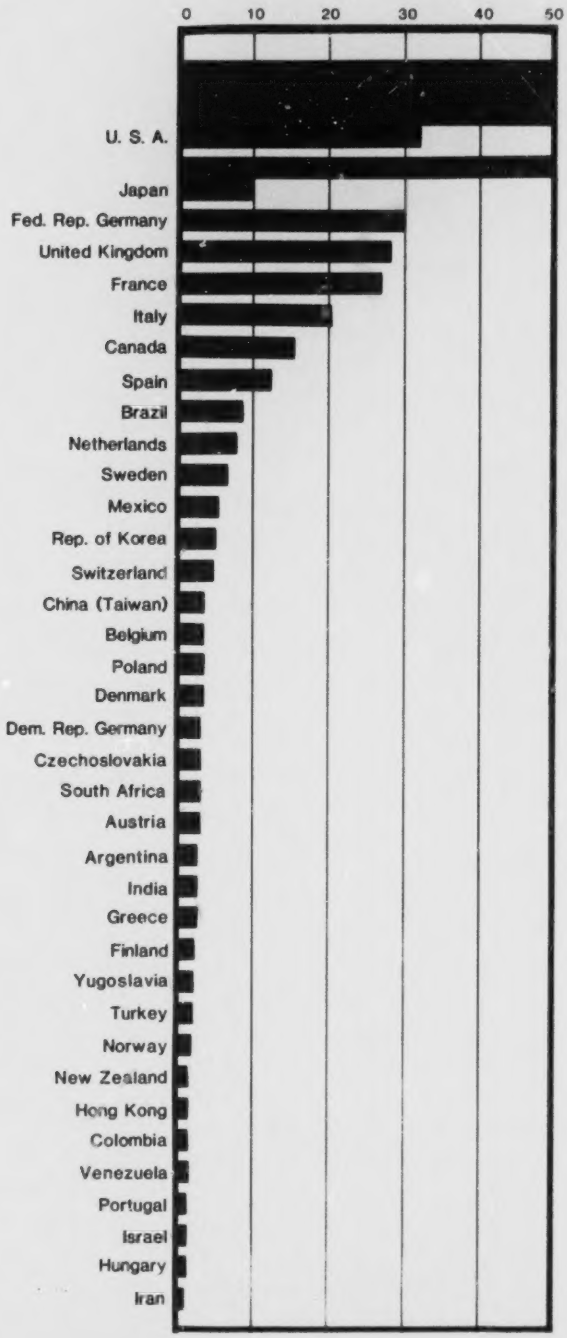
Table 4:
Countries which have reported 1,000,000 or more telephones

NAME	TOTAL TELEPHONES	PER 100 PEOPLE	BUSINESS TELEPHONES			RESIDENCE TELEPHONES		
			NUMBER	% OF TOTAL	EXT. AS % OF MAIN BUS.	NUMBER	% OF TOTAL	EXT. AS % OF MAIN RES.
Argentina	3,041,475	10.7	1,288,868	42.4	38.1	1,752,607	57.6	10.3
Austria	3,177,944	42.1	--	--	--	--	--	--
Belgium	3,818,626	38.7	--	--	--	--	--	--
Brazil	8,536,000	7.2	4,182,640	49.0	27.0	4,353,360	51.0	27.0
Canada	15,741,723	64.7	4,968,250	31.6	31.7	11,469,225	72.9	16.3
China (Taiwan)	3,820,207	21.0	1,564,554	41.0	29.2	2,255,653	59.0	17.8
Colombia	1,747,689	6.3	569,746	32.6	0	1,177,943	67.4	10.0
Czechoslovakia	3,225,968	21.0	2,078,986	64.4	242.3	1,146,982	35.6	0
Denmark	3,483,323	68.0	--	--	--	--	--	--
Finland	2,511,306	52.2	--	--	--	--	--	--
France	26,940,296	49.8	--	--	--	--	--	--
German Democratic Rep.	3,251,950	19.4	--	--	--	--	--	--
Germany, Federal Rep.	30,122,023	48.8	--	--	--	--	--	--
Greece	2,956,663	30.2	--	--	--	--	--	--
Hong Kong	1,822,846	35.0	675,547	37.1	96.5	1,147,299	62.9	10.3
Hungary	1,296,682	12.1	878,517	67.8	32.1	418,165	32.2	0
India	2,981,609	0.5	--	--	--	--	--	--
Iran	1,041,939	2.9	--	--	--	--	--	--
Israel	1,302,000	32.1	--	--	--	--	--	--
Italy	20,444,037	36.3	7,300,005	35.7	44.9	13,144,032	64.3	24.1
Japan	60,349,857	51.0	--	--	--	--	--	--
Korea, Rep. of	5,158,357	13.8	2,140,492	41.5	51.0	3,017,865	58.5	0
Mexico	5,411,108	7.4	2,133,437	39.4	45.9	3,277,671	60.6	64.3
Netherlands	7,769,115	54.4	2,921,106	37.6	60.4	4,847,794	62.4	4.6
New Zealand	1,875,538	58.8	931,350	49.7	--	944,188	50.3	--
Norway	1,992,090	48.5	--	--	--	--	--	--
Poland	3,505,656	9.7	2,163,609	61.7	31.4	1,342,047	38.3	0
Portugal	1,455,804	14.8	--	--	--	--	--	--
South Africa	3,208,730	13.1	1,712,090	53.4	25.5	1,496,640	46.6	7.1
Spain	12,350,058	32.8	4,741,908	38.4	74.8	7,608,150	61.6	44.7
Sweden	6,889,000	82.8	2,118,000	30.7	58.9	4,771,000	69.3	18.1
Switzerland	4,780,760	74.9	2,253,964	47.1	209.5	2,526,796	52.9	15.0
Turkey	2,104,113	4.7	1,199,979	57.0	21.8	904,134	43.0	34.3
United Kingdom	28,375,982	50.7	10,462,418	36.9	174.0	17,913,564	63.1	17.3
United States	181,893,000	78.7	48,313,000	26.6	76.5	133,580,000	73.4	68.7
Venezuela	1,377,630	9.4	--	--	--	--	--	--
Yugoslavia	2,303,501	10.2	1,132,816	49.2	0	1,170,685	50.8	0

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Countries reporting over 1,000,000 telephones:

Total telephones (millions)



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Countries reporting over 1,000,000 telephones:

Telephones per 100 population

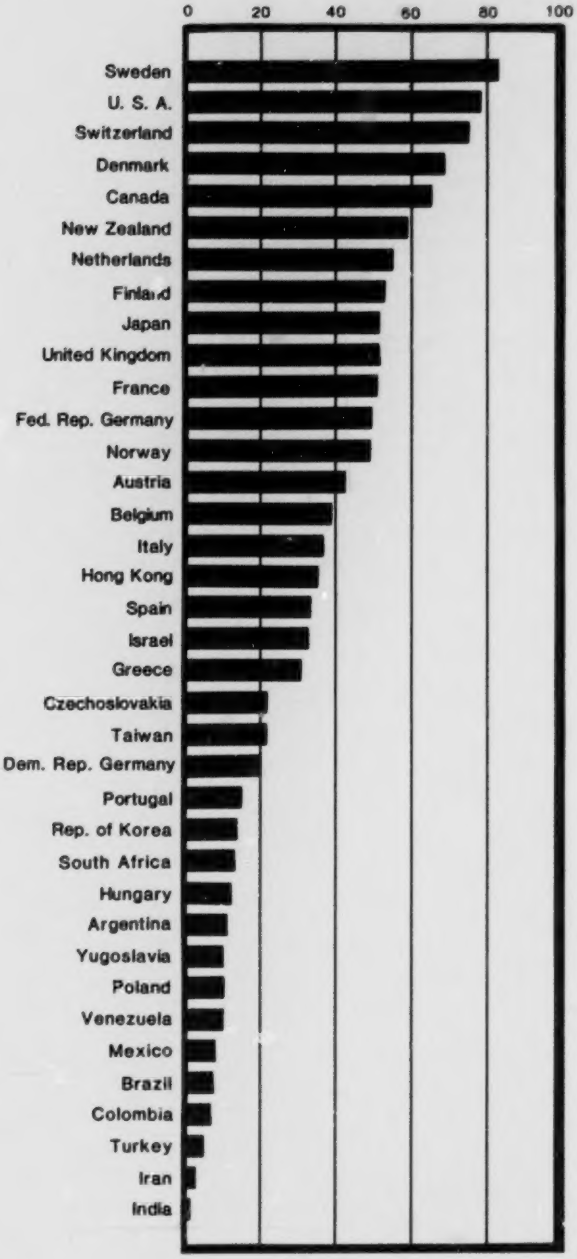

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Table 5:
Countries which have reported 1,000,000 or more telephones

		AUTOMATIC TELEPHONES				
NAME	TOTAL TELEPHONES	EMSS NUMBER	% OF TOTAL	ESS NUMBER	% OF TOTAL	TOTAL % OF AUTO. TOTAL TELS.
Argentina	3,041,475	2,430,743	79.9	65,936	2.2	82.1
Austria	3,177,944	3,177,944	100.0	0	0	100.0
Belgium	3,818,626	3,005,761	78.7	812,865	21.3	100.0
Brazil	8,536,000	8,407,960	98.5	0	0	98.5
Canada	15,741,723	10,290,238	65.4	4,133,674	26.3	91.6
China (Taiwan)	3,820,207	3,454,727	90.4	360,100	9.4	99.9
Colombia	1,747,689	1,588,513	90.9	135,525	7.8	98.6
Czechoslovakia	3,225,968	3,166,597	98.2	0	0	98.2
Denmark	3,483,323	3,365,166	96.6	118,157	3.4	100.0
Finland	2,511,306	—	—	—	—	—
France	26,940,296	22,010,221	81.7	4,930,075	18.3	100.0
German Democratic Rep.	3,251,950	3,251,950	100.0	0	0	100.0
Germany, Federal Rep.	30,122,023	29,984,010	99.5	138,013	0.5	100.0
Greece	2,956,663	2,943,280	99.5	0	0	99.5
Hong Kong	1,822,846	1,223,194	67.1	599,652	32.9	100.0
Hungary	1,296,682	1,091,747	84.2	0	0	84.2
India	2,981,609	2,619,509	87.9	0	0	87.9
Iran	1,041,939	958,751	92.0	40,000	3.8	95.9
Israel	1,302,000	1,300,000	99.8	2,000	0.2	100.0
Italy	20,444,037	20,444,037	100.0	0	0	100.0
Japan	60,349,857	60,247,692	99.8	—	—	99.8
Korea, Rep. of	5,158,357	2,855,382	55.4	820,433	15.9	71.3
Mexico	5,411,108	5,213,728	96.4	136,075	2.5	98.9
Netherlands	7,769,115	4,777,115	61.5	2,992,000	38.5	100.0
New Zealand	1,875,538	1,814,517	96.7	0	0	96.7
Norway	1,992,090	—	—	1,960,255	98.4	98.4
Poland	3,505,656	3,282,178	93.6	0	0	93.6
Portugal	1,455,804	1,430,130	98.2	0	0	98.2
South Africa	3,208,730	2,836,107	88.4	110,257	3.4	91.8
Spain	12,350,058	11,967,128	96.9	225,000	1.8	98.7
Sweden	6,889,000	6,439,000	93.5	450,000	6.5	100.0
Switzerland	4,780,760	4,780,760	100.0	0	0	100.0
Turkey	2,104,113	1,773,976	84.3	0	0	84.3
United Kingdom	28,375,982	24,156,158	85.1	4,219,824	14.9	100.0
United States	181,893,000	94,559,000	52.0	87,300,000	48.0	100.0
Venezuela	1,377,630	1,370,530	99.5	6,000	0.4	99.9
Yugoslavia	2,303,501	2,303,501	100.0	0	0	100.0

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 6:
Countries which have reported 1,000,000 or more telephones

NAME	TOTAL TELEPHONES	MAIN TELEPHONES		EXT. & PBX. TELEPHONES	
		NUMBER	% OF TOTAL	NUMBER	% OF TOTAL
Argentina	3,041,475	2,139,358	70.3	902,117	29.7
Austria	3,177,944	2,322,628	73.1	855,316	26.9
Belgium	3,818,626	2,611,926	68.4	1,206,600	31.6
Brazil	8,536,000	5,377,680	63.0	3,158,320	37.0
Canada	15,741,723	10,010,410	63.6	2,864,384	18.2
China (Taiwan)	3,820,207	2,629,530	68.8	1,190,677	31.2
Colombia	1,747,689	1,423,780	81.5	323,909	18.5
Czechoslovakia	3,225,968	1,684,044	52.2	1,541,924	47.8
Denmark	3,483,323	2,313,376	66.4	1,169,947	33.6
Finland	2,511,306	1,695,624	67.5	815,682	32.5
France	26,940,296	17,616,725	65.4	9,323,571	34.6
German Democratic Rep.	3,251,950	1,397,085	43.0	1,854,865	57.0
Germany, Federal Rep.	30,122,023	22,089,465	73.3	8,032,558	26.7
Greece	2,956,663	2,401,169	81.2	555,494	18.8
Hong Kong	1,822,846	1,383,667	75.9	439,179	24.1
Hungary	1,296,682	636,625	49.1	660,057	50.9
India	2,981,609	2,243,936	75.3	737,673	24.7
Iran	1,041,939	—	—	—	—
Israel	1,302,000	922,465	70.8	—	—
Italy	20,444,037	13,854,836	67.8	6,589,201	32.2
Japan	60,349,857	42,539,015	70.5	17,810,842	29.5
Korea, Rep. of	5,158,357	4,079,590	79.1	1,078,767	20.9
Mexico	5,411 108	2,870,644	53.1	2,540,464	46.9
Netherlands	7,769,115	5,436,400	70.0	2,332,500	30.0
New Zealand	1,875,538	1,173,276	62.6	702,262	37.4
Norway	1,992,090	1,174,632	59.0	817,458	41.0
Poland	3,505,656	1,970,590	56.2	1,535,066	43.8
Portugal	1,455,804	1,057,305	72.6	398,499	27.4
South Africa	3,208,730	1,669,670	52.0	1,539,060	48.0
Spain	12,350,058	7,204,861	58.3	5,145,197	41.7
Sweden	6,889,000	4,462,000	64.8	2,427,000	35.2
Switzerland	4,780,760	2,924,876	61.2	1,855,884	38.8
Turkey	2,104,113	1,301,558	61.9	802,555	38.1
United Kingdom	28,375,982	19,088,541	67.3	9,287,441	32.7
United States	181,893,000	94,457,000	51.9	87,436,000	48.1
Venezuela	1,377,630	1,377,630	100.0	—	—
Yugoslavia	2,303,501	1,684,438	73.1	619,063	26.9

Table 7:
Total Telephones (population ratio, percent automatic, type of operation)

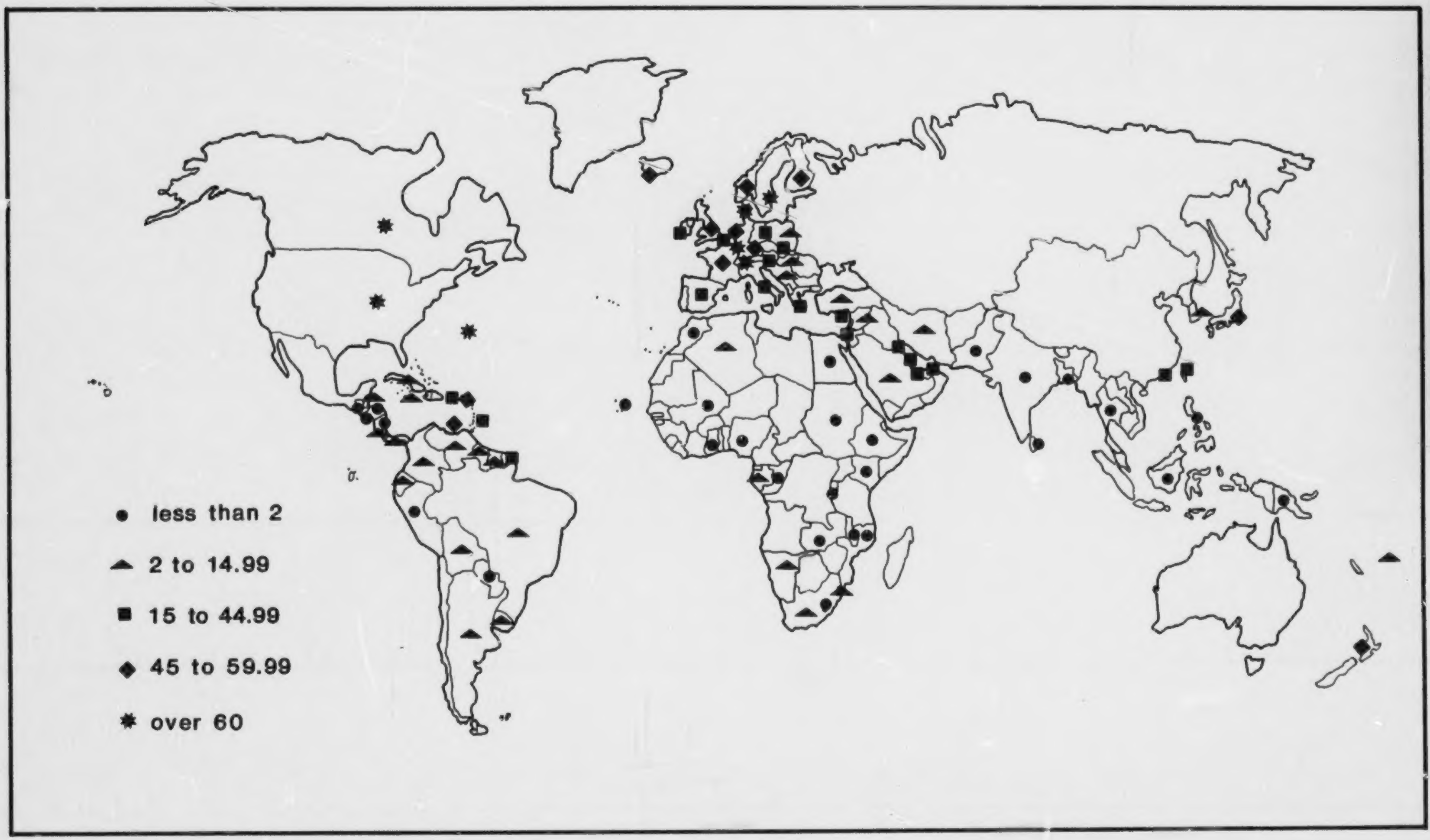
			PERCENT AUTOMATIC		TYPE OF OPERATION	
AREA	TOTAL TELEPHONES	PER 100 POPULATION	EMSS	ESS	PRIVATE	GOVERNMENT
WORLD ZONE 1						
Bahamas	75,071	35.8	98.8	0	15,314	59,757
Barbados	72,850	29.1	60.6	39.4	72,850	0
Bermuda	48,958	88.7	68.2	31.8	48,958	0
Canada	15,741,723	64.7	65.4	26.3	12,865,278	3,262,734
Cayman Islands	9,878	59.1	100.0	0	9,878	0
Dominican Republic	175,054	3.0	12.5	3.8	0	175,054
Jamaica	124,258	6.2	100.0	0	0	124,258
Puerto Rico	678,447	22.0	74.5	25.5	678,447	0
St. Lucia	9.500	0.9	15.8	84.2	9,500	0
St. Pierre & Miquelon	3,156	52.6	100.0	0	0	3,156
St. Vincent	6,047	5.0	100.0	0	6,047	0
United States	181,893,000	78.7	52.0	48.0	181,675,000	218,000
Virgin Islands	44,285	45.1	0	100.0	44,285	0
TOTAL (WORLD ZONE 1)	**198,882,227**	**74.2**	**53.1**	**46.1**	**195,425,557**	**3,842,959**
WORLD ZONE 2						
Algeria	606,869	3.3	63.1	0	0	606,869
Ascension Island	381	34.6	100.0	0	381	0
Burundi	5,601	0.1	91.1	--	0	5,601
Congo	8,899	0.6	98.3	0	—	—
Egypt	521,625	1.2	89.2	0	0	521,625
Ethiopia	100,783	0.3	86.7	0	0	100,783
Gabon	11,133	2.1	38.9	61.1	0	11,133
Ghana	70,653	0.6	85.3	0	0	70,653
Kenya	216,674	1.3	86.3	0	0	216,674
Mali	8,485	0.1	4.6	79.3	0	8,485
Morocco	241,100	1.1	—	—	0	241,100
Mozambique	56,305	0.4	93.0	0	0	56,305
Namibia(Southwest Africa)	57,333	6.0	76.0	0	0	57,333
Nigeria	708,390	0.7	0	0	0	708,390
Reunion	81,175	15.7	88.1	11.9	0	81,175
St. Helena	360	6.0	—	—	--	--
South Africa	3,208,730	13.1	88.4	3.4	0	3,208,730
Bophuthatswana	12,979	1.0	73.7	0	0	12,979
Ciskei	5,441	0.5	27.6	0	0	5,441
Sudan	68,503	0.4	95.3	0	0	68,503
Swaziland	15,357	2.7	97.1	0	0	15,357
Tanzania	96,521	0.6	79.8	0	0	96,521
Zambia	32,659	0.5	97.8	0	0	32,659
TOTAL (WORLD ZONE 2)	**6,135,956**	**1.8**	**71.8**	**2.2**	**381**	**6,126,316**
WORLD ZONE 3 & 4						
Andorra	17,719	46.5	96.7	1.1	0	17,719
Austria	3,177,944	42.1	100.0	0	0	3,177,944
Belgium	3,818,626	38.7	78.7	21.3	0	3,818,626
Cyprus	128,507	20.0	98.4	1.6	0	128,507
Czechoslovakia	3,225,968	21.0	98.2	0	0	3.225,968
Denmark	3,483,323	68.0	96.6	3.4	3,036,277	447,046
Finland	2,511,306	52.2	--	—	1,677,162	834,144
France	26,940,296	49.8	81.7	18.3	0	26,940,296
Germany, Federal Rep.	30,122,023	48.8	99.5	0.5	0	30,122,023
German Democratic Rep.	3,251,950	19.4	100.0	0	0	3.251,950

Table 7: (continued)
Total Telephones (population ratio, percent automatic, type of operation)

AREA	TOTAL TELEPHONES	PER 100 POPULATION	PERCENT AUTOMATIC		TYPE OF OPERATION	
			EMSS	ESS	PRIVATE	GOVERNMENT
WORLD ZONE 3 & 4 (CONTINUED)						
Guernsey--Channel Islands	38,634	69.5	67.8	32.1	0	38,634
Jersey--Channel Islands	55,461	72.9	72.5	27.5	0	55,461
Gibraltar	9,870	33.1	100.0	0	0	9,870
Greece	2,956,663	30.2	99.5	0	0	2,956,663
Hungary	1,296,682	12.1	84.2	0	0	1,296,682
Iceland	111,358	48.0	97.4	0	0	111,358
Ireland	720,000	20.8	90.0	0	0	720,000
Italy	20,444,037	36.3	100.0	0	20,444,037	0
Liechtenstein	21,437	82.5	100.0	0	0	21,437
Luxembourg	228,000	62.6	82.9	17.1	0	228,000
Malta	90,997	28.4	62.6	37.4	0	90,997
Monaco	17,000	60.7	100.0	0	0	17,000
Netherlands	7,769,115	54.4	61.5	38.5	0	7,769,115
Norway	1,992,090	48.5	--	98.4	0	1,992,090
Poland	3,505,656	9.7	93.6	0	0	3,505,656
Portugal	1,455,804	14.8	98.2	0	0	1,455,804
San Marino	8,712	40.1	100.0	0	8,712	0
Spain	12,350,058	32.8	96.9	1.8	12,350,058	0
Sweden	6,889,000	82.8	93.5	6.5	0	6,889,000
Switzerland	4,780,760	74.9	100.0	0	0	4,780,760
United Kingdom	28,375,982	50.7	85.1	14.9	0	28,375,982
Yugoslavia	2,303,501	10.2	100.0	0	0	2,303,501
TOTAL (WORLD ZONE 3 & 4)	172,098,479	38.0	88.8	9.3	37,516,246	134,582,233
WORLD ZONE 5						
Argentina	3,041,475	10.7	79.9	2.2	771,161	2,270,314
Belize	8,645	5.8	42.2	57.8	0	8,645
Bolivia	144,300	2.5	100.0	0	118,800	25,500
Brazil	8,536,000	7.2	98.5	0	236,000	8,300,000
Chile	595,108	5.2	91.8	0	595,108	0
Colombia	1,747,689	6.3	90.9	7.8	37,500	1,710,189
Costa Rica	255,898	10.9	98.7	0	0	255,898
Cuba	406,355	4.2	97.7	0	0	406,355
Ecuador	290,200	3.2	99.0	0.8	0	290,200
El Salvador	86,316	1.8	94.9	0	0	86,316
French Guiana	19,627	26.9	100.0	0	0	19,627
Guadeloupe	74,072	22.6	77.3	22.7	0	74,072
Guatemala	97,670	1.4	86.5	13.5	0	97,670
Guyana	28,468	3.6	81.2	18.8	0	28,468
Honduras	33,667	0.9	58.3	39.9	0	33,667
Martinique	68,908	21.0	100.0	0	0	68,908
Mexico	5,411,108	7.4	96.4	2.5	5,411,108	0
Netherlands Antilles	72,168	28.2	75.2	24.8	52,429	19,739
Nicaragua	51,237	1.8	73.1	22.6	0	51,237
Panama	212,992	10.7	90.4	9.6	16,150	196,842
Peru	129,742	0.7	74.5	0	0	129,742
Suriname	27,495	7.7	--	--	0	27,495
Uruguay	294,350	10.1	93.8	0	0	294,350
Venezuela	1,377,630	9.4	99.5	0.4	0	1,377,630
TOTAL (WORLD ZONE 5)	23,011,120	6.7	94.1	2.0	7,238,256	15,772,864
WORLD ZONE 6						
American Samoa	5,992	17.6	0	100.0	0	5,992
Brunei	21,928	11.4	16.4	83.6	0	21,928
Cocos Island	142	23.7	100.0	0	0	142
Cook Islands	1,670	9.8	19.2	0	0	1,670
Fiji	46,252	7.0	96.6	0	0	46,252

Table 7: (continued)
Total Telephones (population ratio, percent automatic, type of operation)

			PERCENT AUTOMATIC		TYPE OF OPERATION	
AREA	TOTAL TELEPHONES	PER 100 POPULATION	EMSS	ESS	PRIVATE	GOVERNMENT
WORLD ZONE 6 (CONTINUED)						
French Polynesia	24,818	17.7	100.0	0	0	24,818
Guam	14,379	13.6	96.0	4.0	0	14,379
Indonesia	600,643	0.4	86.6	0.4	0	600,643
Kiribati (Gilbert Island)	821	1.4	0	0	0	821
Malaysia	825,289	6.3	73.9	26.1	0	825,289
New Zealand	1,875,538	58.8	96.7	0	0	1,875,538
Niue	205	6.8	0	0	--	--
Norfolk Island	967	54.8	100.0	0	0	967
Northern Marianas	2,325	13.5	100.0	0	2,325	0
Papua New Guinea	50,050	1.6	99.9	0	0	50,050
Philippines	624,101	1.2	2.8	8.0	624,101	0
Pitcairn Islands	24	24.0	0	0	0	24
Singapore	771,400	31.6	63.5	36.5	0	771,400
Solomon Islands	2,708	1.1	100.0	0	0	2,708
Thailand	529,106	1.1	100.0	0	0	529,106
Tonga	2,608	2.8	100.0	0	0	2,608
Tuvalu	92	1.0	0	100.0	0	92
Wallis & Futuna	151	1.3	86.1	0	0	151
Western Samoa	5,857	3.7	98.0	0	0	5,857
TOTAL (WORLD ZONE 6)	**5,407,086**	**2.0**	**76.4**	**10.6**	**626,426**	**4,780,455**
WORLD ZONE 8						
Bangladesh	122,190	0.1	89.5	--	0	122,190
China (Taiwan)	3,820,207	21.0	90.4	9.4	0	3,820,207
Hong Kong	1,822,846	35.0	67.1	32.9	1,822,846	0
Japan	60,349,857	51.0	99.8	--	1,316,708	59,033,149
Korea, Rep. of	5,158,357	13.8	55.4	15.9	0	5,158,357
Macao	23,220	6.7	100.0	0	0	23,220
TOTAL (WORLD ZONE 8)	**71,296,677**	**26.5**	**95.3**	**2.5**	**3,139,554**	**68,157,123**
WORLD ZONE 9						
Bahrain	85,800	24.4	100.0	0	85,800	0
India	2,981,609	0.5	87.9	0	0	2,981,609
Iran	1,041,939	2.9	92.0	3.8	0	1,041,939
Israel	1,302,000	32.1	99.8	0.2	0	1,302,000
Kuwait	231,643	16.0	89.9	10.1	0	231,643
Maldives	1,540	1.1	100.0	0	--	--
Pakistan	393,010	0.5	89.8	1.5	0	393,010
Qatar	67,500	27.6	52.0	48.0	0	67,500
Saudi Arabia	788,576	11.2	2.3	97.1	83,135	705,441
Sri Lanka	109,900	0.7	59.4	18.0	0	109,900
Syria	471,127	4.9	79.9	5.9	0	471,127
Turkey	2,104,113	4.7	84.3	0	0	2,104,113
United Arab Emirates	240,167	21.2	13.5	86.5	0	240,167
TOTAL (WORLD ZONE 9)	**9,818,924**	**1.1**	**79.7**	**11.5**	**168,935**	**9,648,449**
TOTAL (ALL WORLD ZONES)	**486,055,001**				**243,520,247**	**242,880,099**


● less than 2
▲ 2 to 14.99
■ 15 to 44.99
◆ 45 to 59.99
✱ over 60

Telephones per 100 population in reporting countries

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Table 8:
Main and Extension Telephones

AREA	MAIN		EXT. & PBX.	
	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL
WORLD ZONE 1				
Bahamas	31,839	42.4	43,232	57.6
Barbados	48,178	66.1	24,672	33.9
Bermuda	20,961	42.8	27,997	57.2
Canada	10,010,410	63.6	2,864,384	18.2
Dominican Republic	109,111	62.3	65,943	37.7
Jamaica	57,357	46.2	66,901	53.8
Montserrat	—	—	26	--
Puerto Rico	439,372	64.8	239,075	35.2
St. Lucia	5,000	52.6	4,500	47.4
St. Pierre & Miquelon	2,202	69.8	--	--
St. Vincent	3,721	61.5	2,326	38.5
United States	94,457,000	51.9	87,436,000	48.1
Virgin Islands	28,142	63.5	16,143	36.5
TOTAL (WORLD ZONE 1)	105,213,293	52.9	90,791,199	45.7
WORLD ZONE 2				
Algeria	408,211	67.3	198,658	32.7
Ascension Island	245	64.3	136	35.7
Burundi	5,041	90.0	560	10.0
Congo	8,751	98.3	8,519	95.7
Ethiopia	77,328	76.7	23,455	23.3
Gabon	11,133	100.0	0	0
Ghana	37,239	52.7	--	--
Guinea-Bissau	--	--	38	—
Kenya	90,371	41.7	--	--
Mali	5,249	61.9	3,236	38.1
Morocco	177,400	73.6	—	—
Mozambique	35,405	62.9	20,900	37.1
Namibia(Southwest Africa)	33,868	59.1	23,467	40.9
Nigeria	217,974	30.8	490,391	69.2
Reunion	48,142	59.3	--	--
South Africa	1,669,670	52.0	1,539,060	48.0
Bophuthatswana	6,615	51.0	6,364	49.0
Ciskei	3,340	61.4	2,101	38.6
Sudan	48,660	71.0	19,843	29.0
Swaziland	6,507	42.4	8,850	57.6
Zambia	27,721	84.9	4,938	15.1
TOTAL (WORLD ZONE 2)	2,918,870	47.6	2,350,516	38.3
WORLD ZONE 3 & 4				
Andorra	10,313	58.2	7,406	41.8
Austria	2,322,628	73.1	855,316	26.9
Belgium	2,611,926	68.4	1,206,600	31.6
Cyprus	80,495	62.6	48,012	37.4
Czechoslovakia	1,684,044	52.2	1,541,924	47.8
Denmark	2,313,376	66.4	1,169,947	33.6
Finland	1,695,624	67.5	815,682	32.5
France	17,616,725	65.4	9,323,571	34.6
Germany, Federal Rep.	22,089,465	73.3	8,032,558	26.7
German Democratic Rep.	1,397,085	43.0	1,854,865	57.0
Guernsey--Channel Islands	23,309	60.3	15,325	39.7
Jersey--Channel Islands	32,677	58.9	--	--
Gibraltar	7,117	72.1	2,753	27.9
Greece	2,401,169	81.2	555,494	18.8
Hungary	636.625	49.1	660,057	50.9
Iceland	—	—	597	0.5
Ireland	536,000	74.4	184,000	25.6
Italy	13,854,836	67.8	6,589,201	32.2
Liechtenstein	10,600	49.4	10,837	50.6
Malta	60,507	66.5	30,490	33.5
Monaco	17,000	100.0	0	0

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 8: (continued)
Main and Extension Telephones

	MAIN		EXT. & PBX.	
AREA	NUMBER	% OF TOTAL	NUMBER	% OF TOTAL
WORLD ZONE 3 & 4 (CONTINUED)				
Netherlands	5,436.400	70.0	2,332.500	30.0
Norway	1,174,632	59.0	817.458	41.0
Poland	1,970.590	56.2	1,535,066	43.8
Portugal	1,057.305	72.6	398.499	27.4
San Marino	5,645	64.8	3,067	35.2
Spain	7,204,861	58.3	5,145,197	41.7
Sweden	4,462,000	64.8	2,427,000	35.2
Switzerland	2,924,876	61.2	1,855,884	38.8
United Kingdom	19,088,541	67.3	9,287,441	32.7
Yugoslavia	1,684,438	73.1	619,063	26.9
TOTAL (WORLD ZONE 3 & 4)	114,410,809	66.5	57,325,810	33.3
WORLD ZONE 5				
Argentina	2,139,358	70.3	902,117	29.7
Belize	5,920	68.5	2,725	31.5
Brazil	5,377,680	63.0	3,158,320	37.0
Chile	388,871	65.3	206,237	34.7
Colombia	1,423,780	81.5	323,909	18.5
Costa Rica	163,692	64.0	92,206	36.0
Cuba	239,948	59.0	166,407	41.0
Ecuador	241,800	83.3	48,400	16.7
El Salvador	69,464	80.5	—	—
French Guiana	13,019	66.3	—	—
Guatemala	97,670	100.0	—	—
Guyana	16,243	57.1	12,225	42.9
Honduras	33,159	98.5	0	0
Martinique	43,874	63.7	—	—
Mexico	2,870,644	53.1	2,540,464	46.9
Netherlands Antilles	41,930	58.1	30,238	41.9
Panama	161,075	75.6	51,917	24.4
Peru	90,603	69.8	39,139	30.2
Suriname	15,091	54.9	12,404	45.1
Uruguay	226,449	76.9	—	—
Venezuela	1,377,630	100.0	—	—
TOTAL (WORLD ZONE 5)	15,037,900	65.4	7,586,708	33.0
WORLD ZONE 6				
American Samoa	4,060	67.8	1,933	32.3
Brunei	14,006	63.9	7,922	36.1
Cocos Island	0	0	142	100.0
Cook Islands	1,185	71.0	485	29.0
Fiji	21,647	46.8	24,605	53.2
French Polynesia	12,656	51.0	12,162	49.0
Guam	7,758	54.0	6,621	46.0
Indonesia	429,557	71.5	171,086	28.5
Kiribati (Gilbert Island)	468	57.0	353	43.0
Malaysia	561,130	68.0	264,159	32.0
New Zealand	1,173,276	62.6	702,262	37.4
Norfolk Island	658	66.7	329	33.3
Northern Marianas	1,440	61.9	885	38.1
Papua New Guinea	25,554	51.1	24,496	48.9
Philippines	367,404	58.9	256,697	41.1
Pitcairn Islands	24	00.0	0	0
Singapore	546,784	70.9	227,788	29.5
Solomon Islands	1,291	47.7	1,417	52.3
Thailand	369,414	69.8	159,692	30.2
Tonga	1,634	62.7	974	37.3
Tuvalu	92	100.0	0	0
Wallis & Futuna	144	95.4	7	4.5

Table 8: (continued)
Main and Extension Telephones

AREA	MAIN NUMBER	MAIN % OF TOTAL	EXT. & PBX. NUMBER	EXT. & PBX. % OF TOTAL
WORLD ZONE 6 (CONTINUED)				
Western Samoa	3,472	59.3	2,385	40.7
TOTAL (WORLD ZONE 6)	**3,543,654**	**65.5**	**1,866,400**	**34.5**
WORLD ZONE 8				
Bangladesh	113,653	93.0	8,537	7.0
China (Taiwan)	2,629,530	68.8	1,190,677	31.2
Hong Kong	1,383,667	75.9	439,179	24.1
Japan	42,539,015	70.5	17,810,842	29.5
Korea, Rep. of	4,079,590	79.1	1,078,767	20.9
Macao	15,955	68.7	7,265	31.3
TOTAL (WORLD ZONE 8)	**50,761,410**	**71.2**	**20,535,267**	**28.8**
WORLD ZONE 9				
Bahrain	49,400	57.6	36,400	42.4
India	2,243,936	75.3	737,673	24.7
Israel	922,465	70.8	--	--
Kuwait	164,727	71.1	66,916	28.9
Maldives	1,540	100.0	1	0.1
Pakistan	285,790	72.7	23,320	5.9
Saudi Arabia	607,255	77.0	181,321	23.0
Sri Lanka	83,094	75.6	26,806	24.4
Syria	336,924	71.5	134,203	28.5
Turkey	1,301,558	61.9	802,555	38.1
United Arab Emirates	129,688	54.0	110,479	46.0
TOTAL (WORLD ZONE 9)	**6,126,377**	**62.4**	**2,119,674**	**21.6**
TOTAL (ALL WORLD ZONES)	**297,628,759**		**182,163,950**	

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 9: Business and Residence Telephones

AREA	BUSINESS			RESIDENCE		
	NUMBER	% OF TOTAL	EXTENSION AS % OF MAIN BUS.	NUMBER	% OF TOTAL	EXTENSION AS % OF MAIN RES.
WORLD ZONE 1						
Bahamas	40,595	54.1	150.5	34,476	45.9	52.7
Barbados	27,355	37.5	126.9	45,495	62.5	11.3
Bermuda	22,084	45.1	50.0	26,874	54.9	50.0
Canada	4,968,250	31.6	31.7	11,469,225	72.9	16.3
Dominican Republic	69,225	39.5	39.3	105,829	60.5	26.3
Jamaica	79,853	64.3	37.3	44,405	35.7	25.4
Montserrat	318	—	—	1,314	—	—
Puerto Rico	267,067	39.4	69.6	411,380	60.6	19.2
St. Lucia	5,700	60.0	99.4	3,800	40.0	80.3
United States	48,313,000	26.6	76.5	133,580,000	73.4	68.7
Virgin Islands	18,813	42.5	81.3	25,472	57.5	21.1
TOTAL (WORLD ZONE 1)	53,812,260	27.1	72.1	145,748,270	73.3	63.4
WORLD ZONE 2						
Ascension Island	190	49.9	46.7	191	50.1	23.2
Burundi	2,000	35.7	11.8	3,601	64.3	9.0
Ethiopia	40,918	40.6	74.7	59,865	59.4	0
Gabon	3,366	30.2	—	7,767	69.8	—
Mali	5,184	61.1	24.3	3,301	38.9	24.3
Morocco	87,500	36.3	—	153,600	63.7	—
Namibia(Southwest Africa)	31,321	54.6	12.9	26,012	45.4	2.5
Nigeria	528,348	74.6	175.0	180,042	25.4	175.0
South Africa	1,712,090	53.4	25.5	1,496,640	46.6	7.1
Bophuthatswana	7,951	61.3	16.2	5,028	38.7	7.0
Ciskei	2,765	50.8	0	2,676	49.2	3.0
Sudan	48,141	70.3	13.2	20,362	29.7	17.6
Swaziland	12,314	80.2	43.1	3,043	19.8	4.2
Zambia	20,153	61.7	0	12,506	38.3	0
TOTAL (WORLD ZONE 2)	2,502,241	40.8	67.8	1,974,634	32.2	13.7
WORLD ZONE 3 & 4						
Czechoslovakia	2,078,986	64.4	242.3	1,146,982	35.6	0
Gibraltar	8,883	90.0	69.2	987	10.0	0.5
Hungary	878,517	67.8	32.1	418,165	32.2	0
Italy	7,300,005	35.7	44.9	13,144,032	64.3	24.1
Liechtenstein	10,634	49.6	280.3	10,803	50.4	38.4
Monaco	6,000	35.3	0	11,000	64.7	0
Netherlands	2,921,106	37.6	60.4	4,847,794	62.4	4.6
Poland	2,163,609	61.7	31.4	1,342,047	38.3	0
San Marino	3,880	44.5	47.2	4,832	55.5	21.6
Spain	4,741,908	38.4	74.8	7,608,150	61.6	44.7
Sweden	2,118,000	30.7	58.9	4,771,000	69.3	18.1
Switzerland	2,253,964	47.1	209.5	2,526,796	52.9	15.0
United Kingdom	10,462,418	36.9	174.0	17,913,564	63.1	17.3
Yugoslavia	1,132,816	49.2	0	1,170,685	50.8	0
TOTAL (WORLD ZONE 3 & 4)	36,080,726	21.0	92.0	54,916,837	31.9	18.1
WORLD ZONE 5						
Argentina	1,288,868	42.4	38.1	1,752,607	57.6	10.3
Belize	4,802	55.5	90.5	3,843	44.5	13.4
Brazil	4,182,640	49.0	27.0	4,353,360	51.0	27.0
Chile	273,894	46.0	45.3	321,214	54.0	20.4
Colombia	569,746	32.6	0	1,177,943	67.4	10.0
Costa Rica	64,182	25.1	50.0	191,716	74.9	50.0

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 9: (continued)
Business and Residence Telephones

AREA	BUSINESS			RESIDENCE		
	NUMBER	% OF TOTAL	EXTENSION AS % OF MAIN BUS.	NUMBER	% OF TOTAL	EXTENSION AS % OF MAIN RES.
WORLD ZONE 5 (CONTINUED)						
Cuba	231,940	57.1	35.1	174,415	42.9	35.1
Ecuador	101,700	35.0	20.1	188,500	65.0	20.0
Guatemala	29,301	30.0	—	68,369	70.0	—
Guyana	18,481	64.9	26.2	9,987	35.1	6.5
Honduras	12,460	37.0	0	20,699	61.5	0
Martinique	29,944	43.5	—	38,964	56.5	—
Mexico	2,133,437	39.4	45.9	3,277,671	60.6	64.3
Panama	65,317	30.7	16.2	146,975	69.0	16.3
Peru	75,038	57.8	47.6	54,704	42.2	7.0
Suriname	16,855	61.3	61.2	10,640	38.7	17.5
TOTAL (WORLD ZONE 5)	9,098,605	39.5	29.1	11,791,607	51.2	29.5
WORLD ZONE 6						
American Samoa	2,450	40.9	30.6	3,542	59.1	5.3
Cocos Island	74	52.1	—	68	47.9	—
Cook Islands	783	46.9	43.4	887	53.1	2.7
Guam	6,038	42.0	103.3	8,341	58.0	74.2
Kiribati (Gilbert Island)	587	71.5	23.4	234	28.5	33.9
Malaysia	466,887	56.6	100.2	358,402	43.4	11.4
New Zealand	931,350	49.7	—	944,188	50.3	—
Norfolk Island	424	43.0	49.8	563	57.0	17.9
Northern Marianas	1,268	54.5	97.8	1,057	45.5	18.0
Philippines	341,108	54.7	82.1	282,993	45.3	22.9
Pitcairn Islands	4	16.7	0	20	83.3	0
Singapore	329,223	42.7	38.1	445,349	57.7	4.8
Solomon Islands	2,262	83.5	43.4	446	16.5	25.3
Thailand	323,415	61.1	3.3	205,691	38.9	5.6
Tuvalu	80	87.0	0	12	13.0	0
Western Samoa	2,715	46.4	41.7	3,142	53.6	18.2
TOTAL (WORLD ZONE 6)	2,408,668	44.5	43.9	2,254,935	41.7	5.9
WORLD ZONE 8						
China (Taiwan)	1,564,554	41.0	29.2	2,255,653	59.0	17.8
Hong Kong	675,547	37.1	96.5	1,147,299	62.9	10.3
Korea, Rep. of	2,140,492	41.5	51.0	3,017,865	58.5	0
Macao	13,115	56.5	22.3	10,105	43.5	7.5
TOTAL (WORLD ZONE 8)	4,393,708	6.2	51.0	6,430,922	9.0	7.5
WORLD ZONE 9						
Bahrain	38,800	45.2	—	47,000	54.8	—
Kuwait	118,727	51.3	28.1	112,916	48.7	1.7
Maldives	737	47.9	0	803	52.1	0
Saudi Arabia	216,447	27.4	50.4	572,129	72.6	23.5
Syria	90,460	19.2	127.4	380,667	80.8	9.1
Turkey	1,199,979	57.0	21.8	904,134	43.0	34.3
United Arab Emirates	229,626	95.6	49.0	10,541	4.4	17.5
TOTAL (WORLD ZONE 9)	1,894,776	19.3	29.6	2,028,190	20.7	15.6
TOTAL (ALL WORLD ZONES)	107,839,904			223,677,199		

Relative Percentage of Residence, Business, Main, and Extension Telephones

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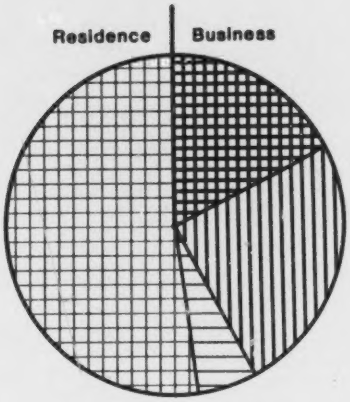
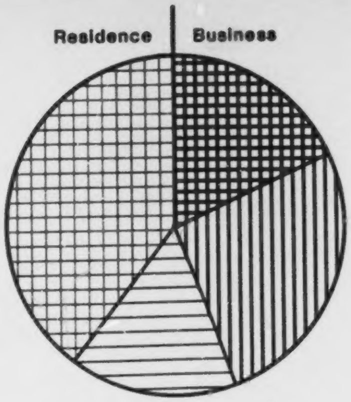
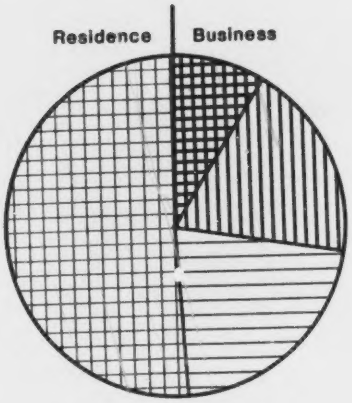


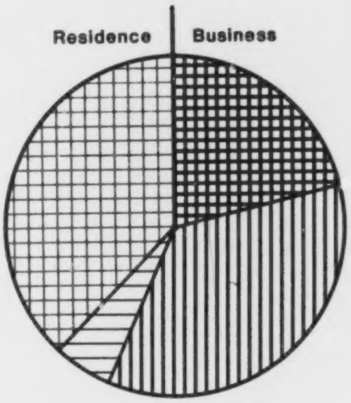
Argentina 3,041,475



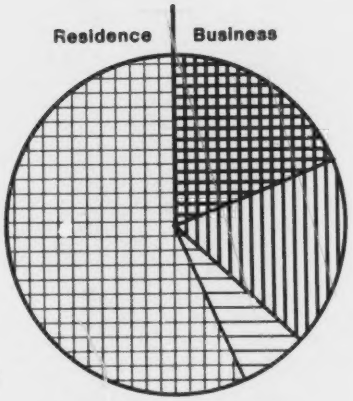
Bahrain 85,800



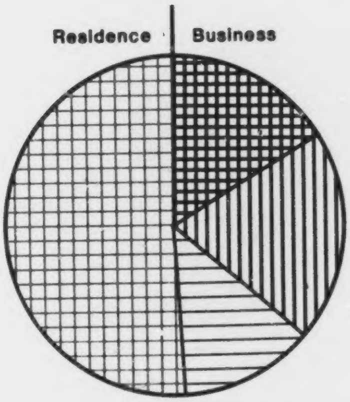
Canada 15,741,723



Cuba 406,355



Hong Kong 1,822,846



Italy 20,444,037

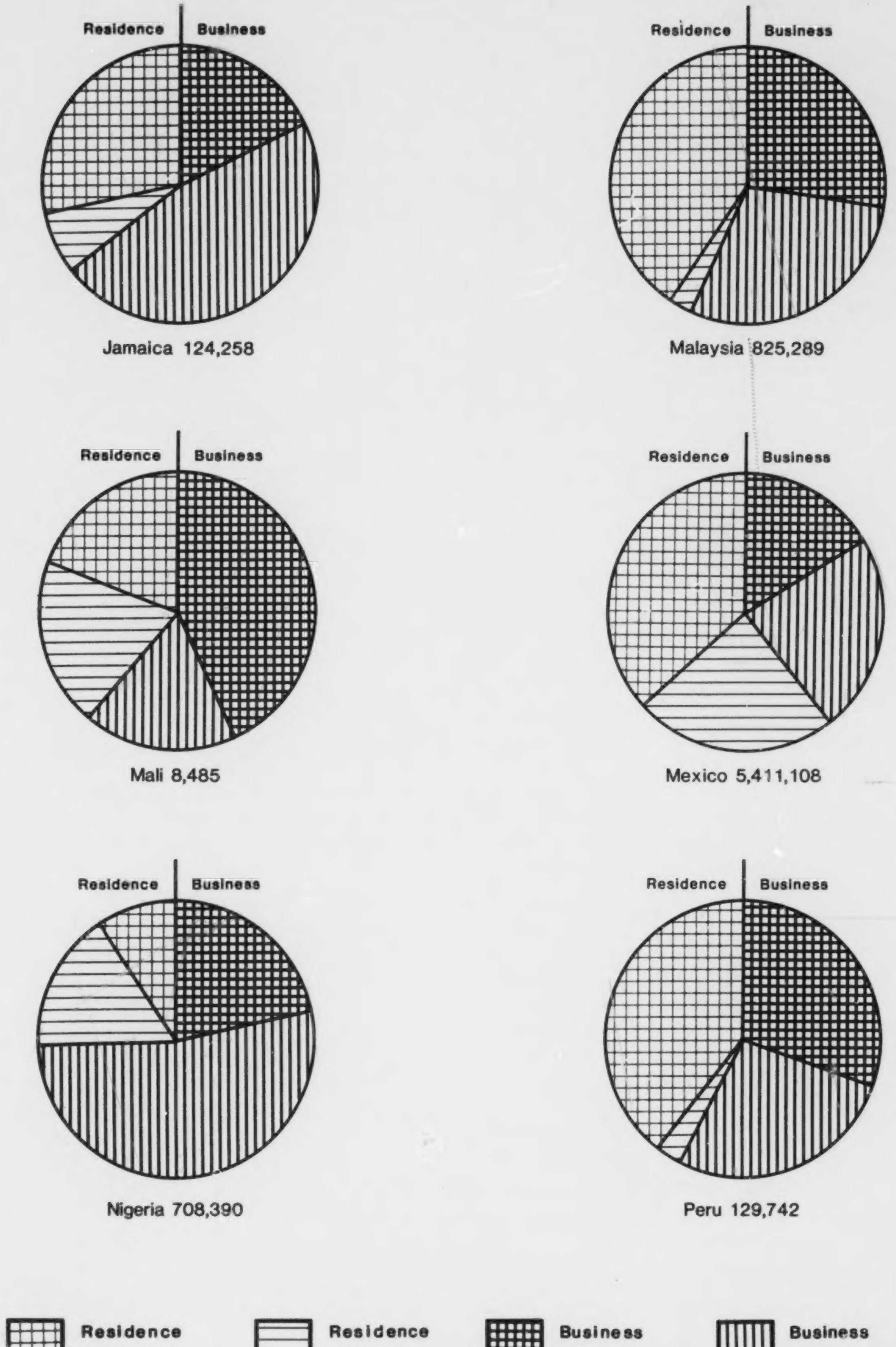
▦ **Residence Mains**

▤ **Residence Extensions**

▩ **Business Mains**

▥ **Business Extensions**

Relative Percentage of Residence, Business, Main, and Extension Telephones



Jamaica 124,258

Malaysia 825,289

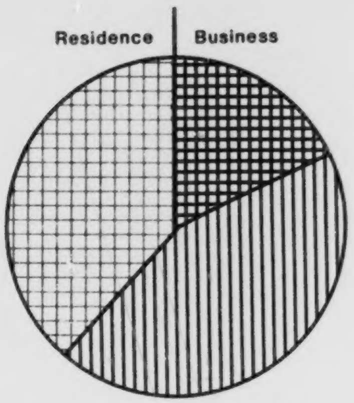
Mali 8,485

Mexico 5,411,108

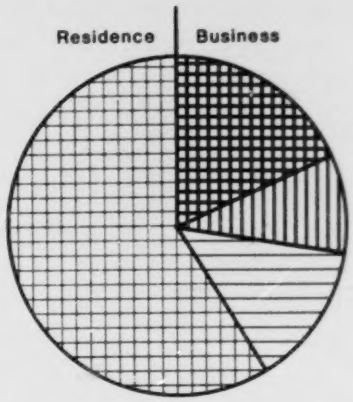
Nigeria 708,390

Peru 129,742

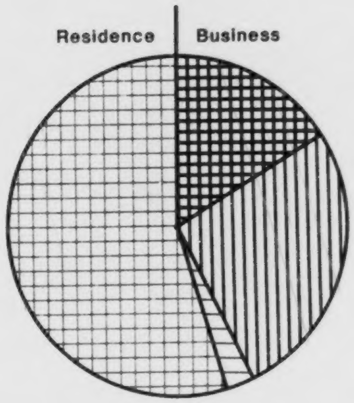
Relative Percentage of Residence, Business, Main, and Extension Telephones



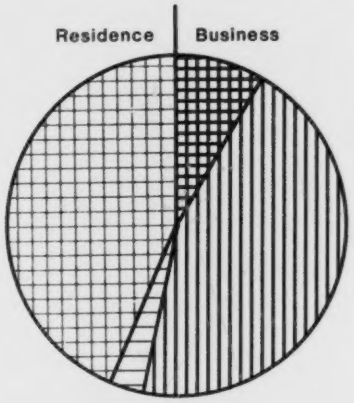
Poland 3,505,656



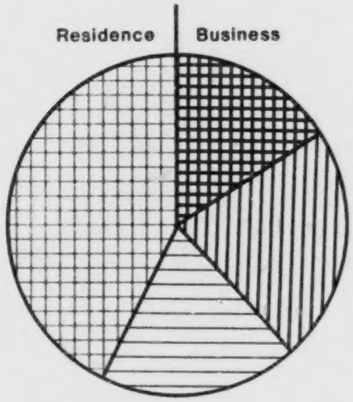
Saudi Arabia 788,576



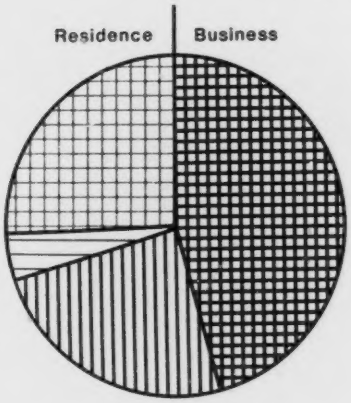
Singapore 771,400



South Africa 3,208,730



Spain 12,350,058



Sudan 68,503

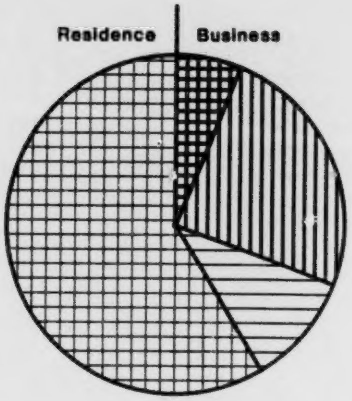
⊞ Residence Mains

▦ Residence Extensions

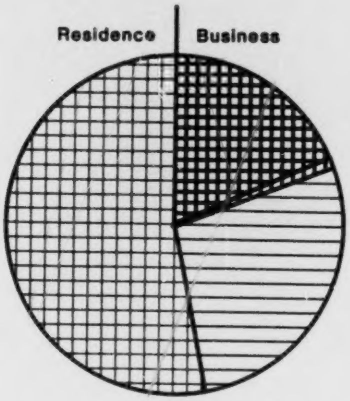
▦ Business Mains

▥ Business Extensions

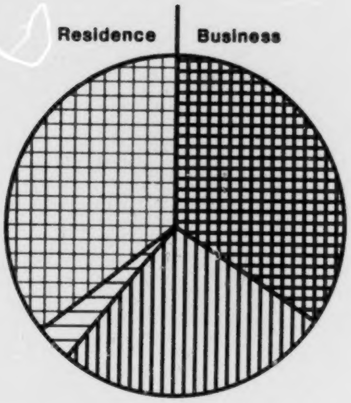
Relative Percentage of Residence, Business, Main, and Extension Telephones



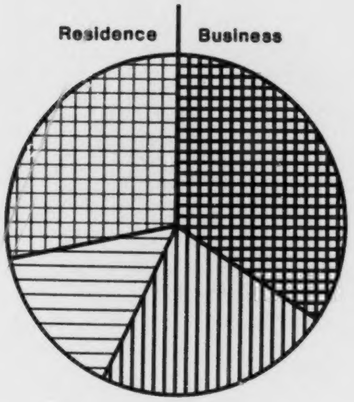
Sweden 6,889,000



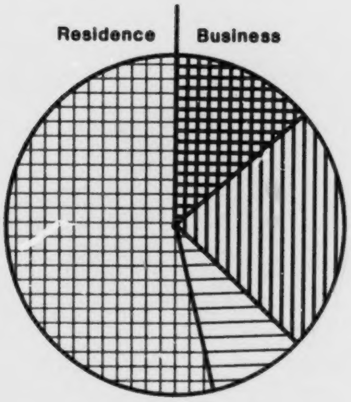
Syria 471,127



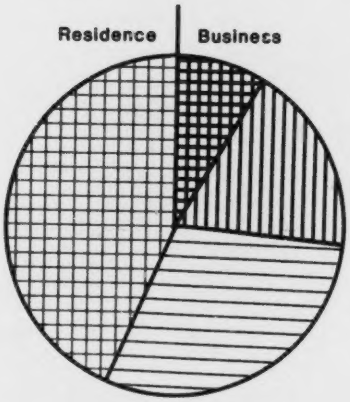
Thailand 529,106



Turkey 2,104,113



United Kingdom 28,375,982



U. S. A. 181,893,000

▦ Residence Mains

▤ Residence Extensions

▩ Business Mains

▥ Business Extensions

Table 10:
Private Branch Exchange (PBX) Telephones

AREA	TOTAL PBX & ASSOCIATED EXTENSION TELEPHONES		BUSINESS		RESIDENCE	
	NUMBER	% OF TOTAL TELS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.
WORLD ZONE 1						
Bahamas	17,384	23.2	17,384	100.0	0	0
Barbados	10,797	14.8	10,797	100.0	0	0
Bermuda	17,524	35.8	17,524	100.0	0	0
Canada	993,840	6.3	910,644	91.6	83,196	8.4
Dominican Republic	33,993	19.4	33,993	100.0	0	0
Jamaica	49,707	40.0	49,707	100.0	0	0
Montserrat	26	—	26	100.0	—	—
Puerto Rico	107,014	15.8	107,014	100.0	0	0
St. Lucia	150	1.6	150	100.0	0	0
St. Vincent	1,456	24.1	1,456	100.0	0	0
United States	21,370,000	11.7	64,000	0.3	21,306,000	99.7
Virgin Islands	5,923	13.4	5,923	100.0	0	0
TOTAL (WORLD ZONE 1)	22,607,814	11.4	1,218,618	5.4	21,389,196	94.6
WORLD ZONE 2						
Algeria	0	0	0	—	0	—
Ascension Island	58	15.2	58	100.0	0	0
Burundi	60	1.1	50	83.3	10	16.7
Congo	100	1.1	—	—	—	—
Ethiopia	0	0	0	—	0	—
Gabon	0	0	0	—	0	—
Guinea-Bissau	38	—	—	—	—	—
Mali	1,961	23.1	683	34.8	1,278	65.2
Mozambique	0	0	0	—	0	—
Namibia(Southwest Africa)	20,831	36.3	21,486	103.1	0	0
Nigeria	108,975	15.4	97,975	89.9	11,000	10.1
South Africa	1,370,542	42.7	1,370,542	100.0	0	0
Bophuthatswana	5,725	44.1	5,725	100.0	0	0
Ciskei	2,022	37.2	2,022	100.0	0	0
Sudan	12,656	18.5	12,656	100.0	0	0
Swaziland	7,230	47.1	—	—	—	—
Zambia	4,938	15.1	4,938	100.0	0	0
TOTAL (WORLD ZONE 2)	1,535,136	25.0	1,516,135	98.8	12,288	0.8
WORLD ZONE 3 & 4						
Andorra	5,191	29.3	5,191	100.0	0	0
Austria	0	0	0	—	0	—
Belgium	945,443	24.8	—	—	—	—
Cyprus	28,151	21.9	28,151	100.0	0	0
Czechoslovakia	240,646	7.5	240,646	100.0	0	0
Denmark	0	0	0	—	0	—
Finland	638,402	25.4	—	—	—	—
France	0	0	0	—	0	—
German Democratic Rep.	1,708,435	52.5	—	—	—	—
Guernsey—Channel Islands	7,266	18.8	—	—	—	—
Gibraltar	1,482	15.0	1,482	100.0	0	0
Greece	317,501	10.7	—	—	—	—
Hungary	589,896	45.5	589,896	100.0	0	0
Iceland	597	0.5	—	—	—	—
Ireland	9,835	1.4	—	—	—	—
Italy	2,570,056	12.6	2,570,056	100.0	0	0
Liechtenstein	0	0	0	—	0	—
Monaco	0	0	0	—	0	—
Netherlands	1,647,100	21.2	1,647,100	100.0	0	0
Norway	613,762	30.8	—	—	—	—
Poland	1,337,806	38.2	1,337,806	100.0	0	0

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 10: (continued)
Private Branch Exchange (PBX) Telephones

AREA	TOTAL PBX & ASSOCIATED EXTENSION TELEPHONES		BUSINESS		RESIDENCE	
	NUMBER	% OF TOTAL TELS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.
WORLD ZONE 3 & 4 (CONTINUED)						
Portugal	0	0	0	—	0	—
San Marino	1,420	16.3	1,420	100.0	0	0
Spain	1,334,581	10.8	1,334,581	100.0	0	0
Sweden	1,446,000	21.0	1,446,000	100.0	0	0
Switzerland	0	0	0	—	0	—
United Kingdom	0	0	0	—	0	—
Yugoslavia	619,063	26.9	619,063	100.0	0	0
TOTAL (WORLD ZONE 3 & 4)	14,062,633	8.2	9,821,392	69.8	0	0
WORLD ZONE 5						
Argentina	528,777	17.4	528,326	99.9	451	0.1
Belize	139	1.6	139	100.0	0	0
Brazil	1,707,200	20.0	836,528	49.0	870,672	51.0
Chile	96,385	16.2	96,385	100.0	0	0
Colombia	227,804	13.0	227,804	100.0	0	0
Costa Rica	10,360	4.0	10,360	100.0	0	0
Cuba	82,160	20.2	82,160	100.0	0	0
Guyana	9,812	34.5	9,812	100.0	0	0
Honduras	0	0	0	—	0	—
Mexico	854,796	15.8	854,796	100.0	0	0
Netherlands Antilles	20,569	28.5	—	—	—	—
Panama	25,750	12.1	25,750	100.0	0	0
Peru	16,780	12.9	16,780	100.0	0	0
Suriname	7,122	25.9	7,122	100.0	0	0
TOTAL (WORLD ZONE 5)	3,587,654	15.6	2,695,962	75.1	871,123	24.3
WORLD ZONE 6						
American Samoa	1,369	22.8	1,190	86.9	0	0
Brunei	7,922	36.1	—	—	—	—
Cocos Island	142	100.0	74	52.1	68	47.9
Cook Islands	320	19.2	270	84.4	50	15.6
Fiji	19,442	42.0	—	—	—	—
French Polynesia	10,272	41.4	—	—	—	—
Guam	0	0	0	—	0	—
Indonesia	62,287	10.4	—	—	—	—
Kiribati (Gilbert Island)	219	26.7	218	99.5	1	0.5
Malaysia	234	0.0	234	100.0	0	0
New Zealand	358,670	19.1	—	—	—	—
Norfolk Island	137	13.9	137	100.0	0	0
Northern Marianas	192	8.3	192	100.0	0	0
Papua New Guinea	24,496	48.9	—	—	—	—
Philippines	91,232	14.6	91,012	99.8	220	0.2
Pitcairn Islands	0	0	0	—	0	—
Singapore	160,639	20.8	158,746	98.8	1,893	1.2
Solomon Islands	921	34.0	921	100.0	0	0
Thailand	143,163	27.1	141,731	99.0	1,432	1.0
Tonga	774	29.7	—	—	—	—
Tuvalu	0	0	0	—	0	—
Wallis & Futuna	1	0.7	—	—	—	—
Western Samoa	1,549	26.4	1,549	100.0	0	0
TOTAL (WORLD ZONE 6)	883,981	16.3	396,274	44.8	3,664	0.4

Table 10: (continued)
Private Branch Exchange (PBX) Telephones

AREA	TOTAL PBX & ASSOCIATED EXTENSION TELEPHONES		BUSINESS		RESIDENCE	
	NUMBER	% OF TOTAL TELS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.	NUMBER	% OF TOTAL PBX & ASSOC. EXTNS.
WORLD ZONE 8						
Bangladesh	909	0.7	—	—	—	—
China (Taiwan)	640,489	16.8	—	—	—	—
Hong Kong	0	0	0	—	0	—
Japan	5,760,683	9.5	—	—	—	—
Korea, Rep. of	537,024	10.4	537,024	100.0	0	0
Macao	5,100	22.0	5,100	100.0	0	0
TOTAL (WORLD ZONE 8)	6,944,205	9.7	542,124	7.8	0	0
WORLD ZONE 9						
Bahrain	0	0	0	—	0	—
India	412,533	13.8	—	—	—	—
Kuwait	49,000	21.2	49,000	100.0	0	0
Maldives	1	0.1	0	0	1	100.0
Pakistan	0	0	—	—	—	—
Sri Lanka	16,757	15.2	—	—	—	—
Syria	0	0	0	—	0	—
Turkey	444,262	21.1	343,190	77.2	101,072	22.8
United Arab Emirates	75,140	31.3	75,140	100.0	0	0
TOTAL (WORLD ZONE 9)	997,693	10.2	467,330	46.8	101,073	10.1
TOTAL (ALL WORLD ZONES)	50,312,782		37,803,629		1,135,344	

Table 11:
Coin Box and Public Telephone Stations

AREA	NUMBER CAPABLE OF ORIG INT'L. CALLS		TOTAL	
	COIN BOX TELS.	PUBLIC TEL. STATIONS	COIN BOX TELS.	PUBLIC TEL. STATIONS
WORLD ZONE 1				
Bahamas	—	181	123	181
Barbados	232	0	232	0
Bermuda	0	0	612	—
Canada	23,396	5,004	112,994	4.874
Cayman Islands	—	—	31	18
Dominican Republic	—	902	—	902
Jamaica	679	655	679	655
Montserrat	20	—	20	—
Puerto Rico	6.562	—	6.562	—
St. Vincent	30	—	30	—
United States	—	—	2,000,000	—
Virgin Islands	312	25	312	25
TOTAL (WORLD ZONE 1)	**31,231**	**6,767**	**2,121,596**	**6,655**
WORLD ZONE 2				
Ascension Island	0	0	0	0
Burundi	—	2	—	—
Ethiopia	—	465	789	465
Ghana	0	0	202	458
Mali	—	—	4	33
Mozambique	—	300	250	300
Namibia(Southwest Africa)	747	33	—	33
Nigeria	0	0	23	0
Reunion	—	—	126	257
South Africa	29,315	388	29,315	388
Bophuthatswana	165	—	165	—
Ciskei	—	—	89	25
Sudan	0	584	0	584
Swaziland	—	108	—	108
Tanzania	505	354	505	354
Zambia	142	—	142	—
TOTAL (WORLD ZONE 2)	**30,874**	**2,234**	**31,610**	**3,005**
WORLD ZONE 3 & 4				
Andorra	69	—	—	—
Austria	23.326	—	—	—
Belgium	1,993	2,685	—	—
Cyprus	375	467	375	467
Czechoslovakia	677	13,056	8,924	13,056
Denmark	—	—	26,972	—
Finland	—	—	13,256	741
France	—	—	131,734	169,654
Germany, Federal Rep.	48,851	31,628	126,410	31,628
German Democratic Rep.	12,128	18,402	14,972	18,402
Guernsey--Channel Islands	615	76	615	76
Jersey--Channel Islands	1,091	154	1.091	154
Gibraltar	71	—	78	9
Greece	1,358	15,035	41,564	15,035
Hungary	—	—	—	16,275
Iceland	0	—	525	—
Ireland	—	—	—	4.400
Italy	305,143	32,574	305,929	99,212
Luxembourg	276	366	276	366
Malta	—	6	554	6
Netherlands	7,241	9,262	7,241	9,262
Norway	—	—	8.845	2,554
Poland	—	7,619	22,190	—
Portugal	—	—	3,533	14,118
San Marino	108	25	108	47

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 11: (continued)
Coin Box and Public Telephone Stations

AREA	NUMBER CAPABLE OF ORIG INT'L. CALLS		TOTAL	
	COIN BOX TELS.	PUBLIC TEL. STATIONS	COIN BOX TELS.	PUBLIC TEL. STATIONS
WORLD ZONE 3 & 4 (CONTINUED)				
Spain	38,882	50,084	38,822	50,084
Sweden	—	—	40,000	—
United Kingdom	299,000	76,884	299,000	76,884
Yugoslavia	1,775	3,109	5,759	3,109
TOTAL (WORLD ZONE 3 & 4)	**742,979**	**261,432**	**1,098,773**	**525,539**
WORLD ZONE 5				
Argentina	—	—	17,335	19,048
Chile	—	—	2,220	6,793
Colombia	16,225	—	16,225	—
Costa Rica	2,387	570	2,387	570
Cuba	—	29	5,976	—
French Guiana	—	—	50	—
Guadeloupe	—	—	97	304
Guatemala	0	0	982	—
Guyana	0	0	102	20
Honduras	319	—	—	—
Martinique	112	0	125	0
Mexico	3,164	25,423	3,164	25,423
Panama	—	—	1,673	—
Peru	—	829	478	829
Suriname	—	—	90	—
Venezuela	0	0	4,944	14,990
TOTAL (WORLD ZONE 5)	**22,207**	**26,851**	**55,848**	**67,977**
WORLD ZONE 6				
Brunei	0	6	24	6
Cocos Island	0	—	0	—
Cook Islands	8	8	8	8
Fiji	—	—	331	27
French Polynesia	38	16	—	—
Guam	0	0	0	0
Indonesia	—	1,224	404	1,224
Kiribati (Gilbert Island)	—	3	—	3
Malaysia	150	—	5,195	4,623
New Zealand	0	0	3,304	4,900
Norfolk Island	—	2	—	7
Papua New Guinea	0	0	250	—
Philippines	—	—	—	2,365
Pitcairn Islands	0	0	0	0
Singapore	0	0	5,800	8,678
Solomon Islands	0	0	10	—
Thailand	—	681	6,863	681
Tonga	41	13	41	13
Western Samoa	—	8	31	8
TOTAL (WORLD ZONE 6)	**237**	**1,961**	**22,261**	**22,543**
WORLD ZONE 8				
Bangladesh	—	—	107	—
China (Taiwan)	0	0	59,116	—
Hong Kong	—	—	810	—
Japan	1,052,688	—	1,052,688	913,924
Korea, Rep. of	—	—	48,837	22,027

Table 11: (continued)
Coin Box and Public Telephone Stations

	NUMBER CAPABLE OF ORIG INT'L. CALLS		TOTAL	
AREA	COIN BOX TELS.	PUBLIC TEL. STATIONS	COIN BOX TELS.	PUBLIC TEL. STATIONS
WORLD ZONE 8 (CONTINUED)				
Macao	0	0	12	0
TOTAL (WORLD ZONE 8)	1,052,688	0	1,161,570	935,951
WORLD ZONE 9				
Israel	—	1	7,900	—
Kuwait	—	6	460	6
Maldives	—	4	—	4
Pakistan	—	—	—	1,047
Saudi Arabia	22	771	1,926	771
Sri Lanka	0	1	282	1,818
United Arab Emirates	20	65	24	65
TOTAL (WORLD ZONE 9)	42	848	10,592	3,711
TOTAL (ALL WORLD ZONES)	1,880,258	300,093	4,500,029	1,558,588

Table 12:
Telephone Subscriber Lines (business and residence)

AREA	BUSINESS	RESIDENCE	TOTAL
	SUBSCRIBER TELEPHONE LINES IN SERVICE		
WORLD ZONE 1			
Bahamas	9,267	22,572	31,839
Barbados	8,721	40,879	49,600
Bermuda	7,230	18,081	25,311
Canada	2,154,096	7,322,738	9,651,480
Cayman Islands	1,843	3,473	5,316
Dominican Republic	34,415	84,835	119,250
Jamaica	80,080	44,621	124,701
Montserrat	298	1,314	1,612
Puerto Rico	106,584	344,990	451,574
St. Lucia	1,750	3,250	5,000
St. Pierre & Miquelon	—	—	2,202
St. Vincent	1,086	2,720	3,806
United States	16,846,000	88,590,000	105,436,000
Virgin Islands	8,853	23,353	32,206
TOTAL (WORLD ZONE 1)	19,260,223	96,502,826	115,939,897
WORLD ZONE 2			
Ascension Island	95	155	250
Burundi	1,700	3,341	5,041
Congo	—	—	8,751
Ethiopia	31,395	45,933	77,328
Gabon	3,366	7,767	11,133
Kenya	—	—	88,094
Mali	3,696	1,679	5,375
Morocco	—	—	117,400
Mozambique	—	—	35,405
Nigeria	152,285	65,265	217,550
Reunion	—	—	48,142
South Africa	520,045	1,397,466	1,917,511
Bophuthatswana	1,915	4,700	6,615
Ciskei	2,651	2,597	5,248
Sudan	31,342	17,318	48,660
Swaziland	3,464	3,043	6,507
Zambia	20,153	12,506	27,721
TOTAL (WORLD ZONE 2)	772,107	1,561,770	2,626,731
WORLD ZONE 3 & 4			
Andorra	—	—	10,313
Belgium	—	—	2,624,290
Cyprus	86,144	—	86,144
Czechoslovakia	537,062	800,800	1,337,862
Denmark	—	—	2,313,376
Finland	—	—	1,837,207
France	—	—	17,290,454
Germany, Federal Rep.	—	—	21,753,409
German Democratic Rep.	—	—	630,766
Jersey—Channel Islands	9,327	23,350	32,677
Gibraltar	1,803	5,314	7,117
Greece	731,217	1,706,174	2,437,391
Iceland	—	—	87,867
Ireland	324,816	211,184	536,000
Italy	3,264,646	9,188,458	12,453,104
Malta	—	—	60,507
Netherlands	1,013,653	4,054,613	5,068,266
Norway	—	—	1,297,653
Poland	680,420	1,342,047	2,022,467
Portugal	—	—	1,056,889
San Marino	1,671	3,881	5,552
Spain	2,173,211	5,256,093	7,429,304
Sweden	856,000	4,039,000	4,895,000
United Kingdom	3,681,210	15,196,790	18,878,000

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 12: (continued)
Telephone Subscriber Lines (business and residence)

AREA	SUBSCRIBER TELEPHONE LINES IN SERVICE BUSINESS	 RESIDENCE	 TOTAL
WORLD ZONE 3 & 4 (CONTINUED)			
Yugoslavia	1,699,558	—	1,699,558
TOTAL (WORLD ZONE 3 & 4)	15,060,733	41,827,704	105,851,173
WORLD ZONE 5			
Argentina	412,464	1,590,054	2,002,518
Belize	2,327	3,593	5,920
Chile	135,137	265,876	401,013
Colombia	373,317	771,828	1,145,145
Costa Rica	39,831	127,811	167,642
Cuba	94,766	145,917	240,683
Ecuador	83,300	154,600	237,900
El Salvador	21,122	48,342	69,464
French Guiana	—	—	13,019
Guadeloupe	—	—	42,755
Guatemala	29,301	68,369	97,670
Guyana	9,491	9,374	18,865
Honduras	12,460	20,699	33,159
Martinique	4,920	38,954	43,874
Mexico	740,948	1,994,347	2,735,295
Netherlands Antilles	—	—	41,930
Panama	35,637	126,284	161,921
Peru	37,984	51,137	89,121
Uruguay	46,669	162,438	209,107
Venezuela	318,706	604,635	923,341
TOTAL (WORLD ZONE 5)	2,398,380	6,184,258	8,660,342
WORLD ZONE 6			
American Samoa	1,177	2,883	4,060
Brunei	—	—	14,006
Cook Islands	591	914	1,505
Fiji	—	—	26,527
Guam	2,980	3,644	6,624
Indonesia	—	—	491,844
Kiribati (Gilbert Island)	581	234	815
Malaysia	241,880	338,879	580,759
New Zealand	213,644	940,884	1,154,528
Norfolk Island	197	511	708
Northern Marianas	528	881	1,409
Papua New Guinea	—	—	25,554
Philippines	231,880	137,945	369,825
Pitcairn Islands	1	1	2
Singapore	151,594	423,885	575,479
Solomon Islands	935	356	1,291
Thailand	196,976	192,262	389,238
Tuvalu	80	12	92
Wallis & Futuna	—	—	151
Western Samoa	866	2,606	3,472
TOTAL (WORLD ZONE 6)	1,043,910	2,045,897	3,647,889
WORLD ZONE 8			
Bangladesh	—	—	122,190
China (Taiwan)	862,298	1,912,921	2,775,219
Hong Kong	343,703	1,039,964	1,383,667
Japan	12,896,253	27,379,515	40,275,768
Korea, Rep. of	1,061,725	3,017,865	4,079,590
Macao	6,555	9,400	15,955
TOTAL (WORLD ZONE 8)	15,170,534	33,359,665	48,652,389

Table 12: (continued)
Telephone Subscriber Lines (business and residence)

AREA	SUBSCRIBER TELEPHONE LINES IN SERVICE BUSINESS	 RESIDENCE	 TOTAL
WORLD ZONE 9			
Bahrain	15,800	33,600	49,400
Kuwait	64,000	107,424	171,424
Qatar	13,400	28,600	42,000
Saudi Arabia	143,919	463,336	607,255
Sri Lanka	--	--	61,920
Turkey	703,461	598,097	1,301,558
United Arab Emirates	52,899	89,692	142,591
TOTAL (WORLD ZONE 9)	993,479	1,320,749	2,376,148
TOTAL (ALL WORLD ZONES)	54,564,234	182,536,993	285,723,398

Table 13:
Reported Conversations (local, long distance, and international with percent ISD)

	LOCAL (000)		LONG DISTANCE (000)		INTERNATIONAL (000)		
AREA	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	% ISD
WORLD ZONE 1							
Bahamas	—	125,735.7	733.6	405.9	1,245.9	207.5	16.7
Barbados	300,000.0	—	—	—	—	861.0	50.0
Bermuda	41,947.7	—	—	—	—	1,751.3	75.6
Canada	1,076.8	1,434,395.4	975,569.7	86,126.2	—	266.8	--
Cayman Islands	11,785.0	—	—	—	—	2,787.7	—
Dominican Republic	—	1,514,898.0	—	5,678.0	—	2,798.0	55.0
Jamaica	—	—	—	1,618.2	—	3,096.5	—
Montserrat	—	—	—	—	503.2	—	—
Puerto Rico	—	52,694.8	—	12,042.1	—	1,642.8	2.8
St. Pierre & Miquelon	12,456.0	—	—	—	—	—	—
St. Vincent	—	—	1,073.7	—	—	6,147.0	0.0
United States	—	243,443,000.0	—	18,770,000.0	—	530,000.0	66.2
Virgin Islands	—	90,820.6	—	—	—	3,247.7	67.1
WORLD ZONE 2							
Algeria	1,587,500.3	—	—	118,369.3	—	173,718.8	—
Ascension Island	—	349.1	—	117.1	—	10.4	0.0
Burundi	—	—	—	—	436,718.0	—	—
Congo	31.4	—	28.6	—	1,374.7	—	12.0
Egypt	475,887.0	—	—	—	—	994.5	75.0
Ethiopia	304,122.0	9,958.0	—	3,337.0	—	180.0	0.0
Gabon	—	—	—	—	1,130.0	60.0	—
Ghana	—	560.9	—	232.5	0.0	143.8	0.0
Guinea-Bissau	—	94,248.4	—	—	2,824.6	—	0.0
Kenya	564,528.8	7,894.7	—	6,857.2	—	715.1	4.1
Mali	—	—	—	92.0	1,435.0	143.0	90.0
Morocco	—	—	1,253,547.0	4,534.0	—	475.0	93.0
Mozambique	74,200.0	950.0	—	2,400.0	—	233.0	—
Namibia(Southwest Africa)	250,793.0	6,369.0	—	4,624.0	43,966.0	18.0	—
Nigeria	0.0	0.0	0.0	0.0	0.0	22.9	61.1
Reunion	206,276.0	—	—	—	—	—	—
South Africa	0,529,429.0	153,347.0	—	88,382.0	2,502,312.0	1,053.0	90.2
Bophuthatswana	54,963.4	—	—	—	15.0	—	13.0
Ciskei	3,480.0	1,194.0	—	—	—	—	—
Sudan	36,000.0	—	67,000.0	1,613.0	—	1,420.3	0.0
Swaziland	—	90,744.0	--	—	—	574.0	--
Tanzania	7,171.0	6,452.0	223,283.0	3,006.0	—	298.0	--
Zambia	—	65.9	—	2,030.2	317,469.6	—	—
WORLD ZONE 3 & 4							
Andorra	12,100.0	—	2,728.0	—	142.0	—	99.9
Austria	9,736,424.0	—	—	10.0	—	227,325.0	99.5
Belgium	—	1,427,559.0	1,619,240.0	—	1,499,661.0	556.0	99.2
Cyprus	396,824.0	—	16.0	—	429,461.0	49,060.0	90.0
Czechoslovakia	3,760,558.0	—	—	58,222.0	4,267.0	329.0	92.8
Denmark	2,051,437.0	—	1,164,675.0	682.0	28,052.0	979.0	96.6
Finland	3,579,137.0	1,461,159.0	5,431,068.0	320,097.0	800,470.0	12,852.0	99.0
France	—	—	66,543,213.0	—	—	823,800.0	—
Germany, Federal Rep.	5,508,415.0	—	8,025,288.0	2,329.0	275,610.0	2,973.0	98.9
German Democratic Rep.	1,303,831.0	—	654,928.0	31,708.0	9,119.0	1,887.0	82.9
Guernsey--Channel Islands	24,153.6	21.5	2,666.1	43.9	157.1	6.2	96.0
Jersey--Channel Islands	34,570.0	121.0	580.0	3.0	5,806.0	151.0	5.7
Gibraltar	2,556.0	14,915.0	—	—	62.0	255.0	19.0
Greece	3,456,615.0	—	504,782.0	8,163.0	16,317.0	1,419.0	92.0
Hungary	1,011,735.0	109,147.0	563,509.0	41,757.0	260,612.0	712.0	86.1
Iceland	468,982.0	—	—	1,345.0	59,159.0	491.0	—
Ireland	—	—	1,481,741.0	27,210.0	212,549.0	8,190.0	77.7
Italy	—	10,408,298.0	—	4,062,971.0	—	82,897.0	90.9
Liechtenstein	7,044.0	—	12,115.0	—	4,863.0	—	—
Luxembourg	—	—	—	122,700.0	—	14,482.0	99.0
Malta	—	48,117.0	—	--	3,740.0	1,338.0	78.6
Monaco	—	69,037.3	—	--	81,880.3	—	--
Netherlands	2,802,000.0	—	2,211,000.0	12.0	90,699.0	915.0	99.0
Norway	3,909,715.0	30,831.0	—	20,122.0	—	105,090.0	94.8
Poland	—	—	815,406.0	180,816.0	2,182.0	1,252.0	64.0

Table 13: (continued)
Reported Conversations (local, long distance, and international with percent ISD)

AREA	LOCAL (000) PULSE METERED	LOCAL (000) ALL OTHER	LONG DISTANCE (000) PULSE METERED	LONG DISTANCE (000) ALL OTHER	INTERNATIONAL (000) PULSE METERED	INTERNATIONAL (000) ALL OTHER	% ISD
WORLD ZONE 3 & 4 (CONTINUED)							
Portugal	1,525,791.0	4,166.0	2,081,848.0	12,237.0	21,949.0	30,658.0	72.0
San Marino	—	4,213.0	—	1,725.0	—	—	—
Spain	1,113,000.0	—	51,855,000.0	52,061.0	9,507,000.0	2,322.0	95.9
Sweden	0,606,871.0	—	—	5,731.0	43,657.0	1,064.0	97.0
Switzerland	1,249,932.0	—	4,907,855.0	—	522,252.0	—	—
United Kingdom	—	17,360,000.0	—	3,446,000.0	—	131,000.0	97.6
Yugoslavia	—	6,212.0	15,563,780.0	33,457.0	2,604,312.0	2,900.0	—
WORLD ZONE 5							
Argentina	1,399,229.0	—	—	44,353.0	2,816.0	—	36.0
Belize	28,382.4	—	—	—	—	90.1	—
Bolivia	—	—	—	432.8	—	27.8	—
Brazil	8,643,770.0	—	—	708,281.0	—	6,324.0	78.0
Chile	872,350.0	222,664.0	2,297.0	39,318.0	—	1,096.0	—
Colombia	—	—	117,914.0	25,932.0	—	2,330.0	27.3
Costa Rica	588,097.4	—	481,170.6	—	—	1,732.8	57.0
Cuba	—	—	—	77,498.4	—	1,148.3	0.0
Ecuador	—	—	—	—	—	1,038.0	20.0
El Salvador	365,856.4	2,559.7	64,562.9	—	—	—	31.0
French Guiana	90,977.0	—	—	—	—	—	—
Guadeloupe	292,355.0	—	—	—	—	—	—
Guatemala	301,043.9	—	33,411.1	24,563.3	14,304.1	—	61.0
Guyana	100,711.0	0.0	—	0.0	0.0	28.0	0.0
Honduras	—	—	—	—	—	8,435.6	47.8
Martinique	6,867.0	0.0	68,916.0	26,100.0	—	4,388,712.0	—
Mexico	—	10,713,000.0	—	461,277.0	—	27,516.0	82.1
Netherlands Antilles	74,910.0	—	—	7,471.0	—	4,916.0	57.0
Nicaragua	—	—	188,716.9	—	—	7,844.6	—
Panama	—	625,400.0	—	—	—	2,279.0	60.0
Peru	—	—	—	14,438.0	—	694.0	—
Suriname	54.8	—	—	—	—	1.1	—
Uruguay	504,800.0	—	14,359.0	11,939.0	2,509.0	369.0	87.0
Venezuela	—	—	—	—	6,366.0	2,397.0	72.7
WORLD ZONE 6							
American Samoa	—	138.0	—	—	—	—	46.0
Brunei	—	0.0	22,720.0	—	—	3,916.0	27.0
Cocos Island	—	—	—	—	—	—	0.0
Cook Islands	—	—	—	—	165.0	—	0.0
Fiji	—	—	—	—	—	159.0	—
French Polynesia	18,100.0	930.0	—	—	17,832.0	652.0	70.0
Indonesia	4,315,920.0	—	—	10,213.0	—	2,142.0	36.6
Kiribati (Gilbert Island)	—	—	—	—	—	34.0	—
Malaysia	2,797,799.0	260,140.0	—	—	73,216.0	—	11.6
New Zealand	—	—	—	102,380.3	—	3,074.9	39.5
Niue	—	—	—	—	—	40.0	0.0
Norfolk Island	—	—	—	—	—	165.0	—
Northern Marianas	0.0	—	0.0	—	—	63,000.0	0.0
Papua New Guinea	54,300.0	103.0	—	—	2,225.0	162.0	95.0
Philippines	—	—	58,904.9	12,060.9	23,005.4	2,651.3	0.7
Pitcairn Islands	—	—	—	—	0.0	0.0	0.0
Singapore	—	3,558,261.0	10,551.0	0.0	—	5,058.0	43.1
Solomon Islands	0.0	—	0.0	—	0.0	36.0	0.0
Thailand	809,717.0	—	—	30,432.0	—	1,127.0	—
Tonga	2,840.0	0.0	0.0	0.0	0.0	0.0	0.0
Tuvalu	—	1.0	—	—	0.5	—	0.0
Western Samoa	—	—	—	—	—	676,000.0	1.2
WORLD ZONE 8							
Bangladesh	—	—	—	—	1,268.2	—	—
China (Taiwan)	7,496,630.0	—	10,865,182.0	20,212.0	—	27,049.0	4.9
Hong Kong	—	—	—	—	3,619.0	6,466.0	64.1
Japan	—	—	—	—	5,911.0	9,026.0	39.6
Korea, Rep. of	2,990,368.0	—	335,074.0	—	—	3,590,883.0	—
Macao	—	—	—	—	2,139.2	986.8	3.2

Table 13: (continued)
Reported Conversations (local, long distance, and international with percent ISD)

	LOCAL (000)		LONG DISTANCE (000)		INTERNATIONAL (000)		
AREA	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	PULSE METERED	ALL OTHER	% ISD
WORLD ZONE 9							
Bahrain	122,572.0	—	—	—	—	22,209.0	78.0
India	9,696,000.0	174,987.0	—	—	—	—	—
Iran	—	—	—	—	—	23,928.6	—
Israel	1,176.2	—	2,283.3	—	1,080.5	5,035.0	85.0
Kuwait	—	—	—	—	—	4,000.0	78.0
Maldives	—	—	—	—	—	26.5	—
Pakistan	—	—	100,400.0	16,840.0	970.0	120.0	—
Qatar	0.0	0.0	0.0	0.0	—	315,373.0	75.0
Saudi Arabia	0,798,844.0	—	—	—	—	17,101.6	79.7
Sri Lanka	1,114,560.0	—	371,520.0	—	—	2,100.0	80.0
Syria	—	435,000.0	—	47,300.0	—	12,000.0	65.4
Turkey	2,339,119.0	—	—	85,029.0	—	27,440.0	—
United Arab Emirates	—	—	—	110,471.0	—	63,321.0	85.0

Table 14:
Reported Telephone Conversations (most frequently called country)

	MOST FREQUENTLY			
CALLING AREA	FIRST	SECOND	THIRD	FOURTH
WORLD ZONE 1				
BAHAMAS	United States	Canada	United Kingdom	Germany, Fed. Rep.
BARBADOS	United States	Trinidad & Tobago	Canada	United Kingdom
BERMUDA	United States	United Kingdom	Canada	—
CANADA	United States	United Kingdom	Germany, Fed. Rep.	Hong Kong
CAYMAN ISLANDS	United States	United Kingdom	Jamaica	Canada
DOMINICAN REPUBLIC	United States	Puerto Rico	Venezuela	Spain
JAMAICA	United States	Canada	United Kingdom	Cayman Islands
MONTSERRAT	Antigua	United States	Barbados	United Kingdom
PUERTO RICO	Dominican Republic	Venezuela	Spain	Mexico
ST. VINCENT	United States	Barbados	Trinidad & Tobago	Canada
UNITED STATES	United Kingdom	Germany, Fed. Rep.	France	Italy
VIRGIN ISLANDS	United States	Puerto Rico	Canada	Italy
WORLD ZONE 2				
ALGERIA	France	Italy	Germany, Fed. Rep.	Tunisia
ASCENSION ISLAND	St. Helena	United Kingdom	United States	South Africa
CONGO	France	Zaire	Belgium	Gabon
EGYPT	United States	Kuwait	United Kingdom	Saudi Arabia
ETHIOPIA	Italy	Djibouti	United States	Saudi Arabia
GABON	France	Ivory Coast	Senegal	United States
GHANA	United Kingdom	United States	Germany, Fed. Rep.	France
GUINEA-BISSAU	Portugal	Senegal	Brazil	France
KENYA	United Kingdom	United States	Canada	Italy
MALI	France	United States	Belgium	Germany, Fed. Rep.
MOROCCO	France	Spain	Belgium	Germany, Fed. Rep.
MOZAMBIQUE	Portugal	South Africa	Zimbabwe (Rhodesia)	Swaziland
NIGERIA	United Kingdom	United States	France	Germany, Fed. Rep.
SOUTH AFRICA	United Kingdom	United States	Germany, Fed. Rep.	Australia
BOPHUTHATSWANA	United Kingdom	United States	Germany, Fed. Rep.	Israel
SUDAN	Saudi Arabia	United Kingdom	United States	Germany, Fed. Rep.

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 14:

CALLED COUNTRY			
FIFTH	SIXTH	SEVENTH	CALLING AREA
			WORLD ZONE 1
Switzerland	—	—	BAHAMAS
St. Vincent	St. Lucia	Antigua	BARBADOS
—	—	—	BERMUDA
Italy	Netherlands	Greece	CANADA
Germany, Fed. Rep.	Switzerland	—	CAYMAN ISLANDS
Italy	France	Germany, Fed. Rep.	DOMINICAN REPUBLIC
Barbados	Trinidad & Tobago	—	JAMAICA
Canada	Puerto Rico	Virgin Islands	MONTSERRAT
Canada	Italy	France	PUERTO RICO
St. Lucia	Martinique	Virgin Islands	ST. VINCENT
Japan	Venezuela	Colombia	UNITED STATES
Greece	United Kingdom	—	VIRGIN ISLANDS
			WORLD ZONE 2
Spain	Belgium	Switzerland	ALGERIA
—	—	—	ASCENSION ISLAND
Italy	Ivory Coast	Senegal	CONGO
France	Germany, Fed. Rep.	Italy	EGYPT
Kenya	United Kingdom	France	ETHIOPIA
United Kingdom	Togo	Belgium	GABON
Italy	Canada	India	GHANA
United States	Belgium	German Dem. Rep.	GUINEA-BISSAU
Germany, Fed. Rep.	Switzerland	France	KENYA
Switzerland	Togo	Canada	MALI
Netherlands	—	—	MOROCCO
Italy	United Kingdom	Spain	MOZAMBIQUE
Italy	India	Switzerland	NIGERIA
Greece	France	Israel	SOUTH AFRICA
Zambia	Kenya	Belgium	BOPHUTHATSWANA
France	Egypt	Italy	SUDAN

Table 14: (continued)
Reported Telephone Conversations (most frequently called country)

	MOST		FREQUENTLY	
CALLING AREA	FIRST	SECOND	THIRD	FOURTH
WORLD ZONE 2 (CONTINUED)				
SWAZILAND	South Africa	Mozambique	United Kingdom	Lesotho
TANZANIA	United Kingdom	United States	Canada	Germany, Fed. Rep.
ZAMBIA	United Kingdom	South Africa	Zimbabwe (Rhodesia)	United States
WORLD ZONE 3 & 4				
ANDORRA	United Kingdom	Portugal	Switzerland	Germany, Fed. Rep.
AUSTRIA	Germany, Fed. Rep.	Switzerland	Italy	Yugoslavia
BELGIUM	France	Netherlands	Germany, Fed. Rep.	United Kingdom
CYPRUS	Greece	United Kingdom	Lebanon	Germany. Fed. Rep.
CZECHOSLOVAKIA	Germany, Fed. Rep.	Soviet Union	Austria	German Dem. Rep.
DENMARK	Sweden	Germany, Fed. Rep.	United Kingdom	Norway
FINLAND	Sweden	Germany, Fed. Rep.	United Kingdom	Norway
FRANCE	Germany, Fed. Rep.	United Kingdom	Italy	Belgium
GERMANY, FEDERAL REP.	Austria	Switzerland	Netherlands	Italy
GERMAN DEMOCRATIC REP.	Germany, Fed. Rep.	Soviet Union	Poland	Czechoslovakia
JERSEY--CHANNEL ISLANDS	United Kingdom	—	—	—
GIBRALTAR	United Kingdom	Spain	Morocco	—
GREECE	Germany, Fed. Rep.	United Kingdom	United States	Italy
HUNGARY	Germany, Fed. Rep.	Austria	Switzerland	Soviet Union
ICELAND	Denmark	Sweden	United Kingdom	United States
IRELAND	United Kingdom	United States	Germany, Fed. Rep.	France
ITALY	Germany, Fed. Rep.	Switzerland	France	United Kingdom
LUXEMBOURG	Germany. Fed. Rep.	Belgium	France	Italy
MALTA	United Kingdom	Italy	Germany. Fed. Rep.	Libya
MONACO	Italy	United Kingdom	Switzerland	Germany. Fed. Rep.
NETHERLANDS	Germany, Fed. Rep.	Belgium	United Kingdom	France
NORWAY	Sweden	Denmark	United Kingdom	Germany, Fed. Rep.
POLAND	Germany, Fed. Rep.	United Kingdom	Czechoslovakia	France
PORTUGAL	France	Monaco	Spain	Andorra

Table 14: (continued)

CALLED COUNTRY			
FIFTH	SIXTH	SEVENTH	CALLING AREA
			WORLD ZONE 2 (CONTINUED)
United States	Italy	Germany, Fed. Rep.	SWAZILAND
India	Italy	Japan	TANZANIA
Kenya	Italy	Tanzania	ZAMBIA
			WORLD ZONE 3 & 4
Netherlands	Belgium	Italy	ANDORRA
United Kingdom	Netherlands	France	AUSTRIA
Italy	Luxembourg	Switzerland	BELGIUM
United States	Sweden	France	CYPRUS
Switzerland	Hungary	Yugoslavia	CZECHOSLOVAKIA
Netherlands	France	Switzerland	DENMARK
Denmark	Soviet Union	Switzerland	FINLAND
Spain	Switzerland	Algeria	FRANCE
France	United Kingdom	Yugoslavia	GERMANY, FEDERAL REP.
Hungary	Austria	--	GERMAN DEMOCRATIC REP.
--	--	--	JERSEY--CHANNEL ISLANDS
--	--	--	GIBRALTAR
France	Cyprus	Switzerland	GREECE
German Dem. Rep.	--	--	HUNGARY
Norway	Germany, Fed. Rep.	--	ICELAND
Netherlands	Canada	Spain	IRELAND
Austria	Belgium	Netherlands	ITALY
United Kingdom	Switzerland	Netherlands	LUXEMBOURG
France	United States	Belgium	MALTA
United States	Netherlands	Belgium	MONACO
Switzerland	Italy	United States	NETHERLANDS
United States	Finland	Netherlands	NORWAY
Sweden	Austria	Soviet Union	POLAND
United Kingdom	Germany, Fed. Rep.	Switzerland	PORTUGAL

Table 14: (continued)
Reported Telephone Conversations (most frequently called country)

	MOST		FREQUENTLY	
CALLING AREA	FIRST	SECOND	THIRD	FOURTH
WORLD ZONE 3 & 4 (CONTINUED)				
SPAIN	France	Germany, Fed. Rep.	United Kingdom	Switzerland
SWEDEN	Finland	Denmark	Norway	Germany, Fed. Rep.
SWITZERLAND	Germany, Fed. Rep.	Italy	France	United Kingdom
UNITED KINGDOM	United States	Germany, Fed. Rep.	France	Netherlands
YUGOSLAVIA	Germany, Fed. Rep.	Austria	Italy	Switzerland
WORLD ZONE 5				
ARGENTINA	United States	Brazil	Italy	Paraguay
BELIZE	United States	Canada	Mexico	—
BRAZIL	United States	Argentina	Germany, Fed. Rep.	Italy
CHILE	United States	Argentina	Brazil	Venezuela
COLOMBIA	United States	Venezuela	Ecuador	Mexico
COSTA RICA	United States	Nicaragua	Panama	Guatemala
CUBA	United States	Soviet Union	Puerto Rico	Nicaragua
ECUADOR	United States	Colombia	Peru	Chile
EL SALVADOR	United States	Guatemala	Costa Rica	Mexico
GUATEMALA	United States	Spain	Germany, Fed. Rep.	France
GUYANA	United States	Canada	United Kingdom	Trinidad & Tobago
HONDURAS	United States	Guatemala	Costa Rica	Nicaragua
MARTINIQUE	France	United States	Canada	Italy
MEXICO	United States	Canada	Spain	Guatemala
NETHERLANDS ANTILLES	United States	Netherlands	Venezuela	Puerto Rico
NICARAGUA	United States	Venezuela	Spain	Cuba
PANAMA	United States	Costa Rica	Colombia	Spain
PERU	United States	Venezuela	Argentina	Chile
SURINAME	Netherlands	United States	Guyana	Netherlands Antilles
URUGUAY	Argentina	Brazil	United States	Spain
VENEZUELA	United States	Spain	Colombia	Italy
WORLD ZONE 6				
AMERICAN SAMOA	United States	Western Samoa	China (Taiwan)	Korea, Rep. of
BRUNEI	Malaysia	Singapore	United Kingdom	Hong Kong
COOK ISLANDS	New Zealand	Australia	—	—
FIJI	Australia	New Zealand	United Kingdom	Canada

Table 14: (continued)

CALLED COUNTRY			
FIFTH	SIXTH	SEVENTH	CALLING AREA
			WORLD ZONE 3 & 4 (CONTINUED)
United States	Italy	Netherlands	SPAIN
United Kingdom	United States	France	SWEDEN
Austria	Netherlands	Spain	SWITZERLAND
Italy	Switzerland	Belgium	UNITED KINGDOM
France	—	—	YUGOSLAVIA
			WORLD ZONE 5
Spain	Chile	Germany, Fed. Rep.	ARGENTINA
—	—	—	BELIZE
Paraguay	France	Portugal	BRAZIL
United Kingdom	Canada	Spain	CHILE
Panama	Spain	France	COLOMBIA
El Salvador	Honduras	Mexico	COSTA RICA
Spain	—	—	CUBA
Venezuela	Spain	Panama	ECUADOR
Spain	Canada	Switzerland	EL SALVADOR
Colombia	Puerto Rico	—	GUATEMALA
Barbados	Suriname	Antigua	GUYANA
El Salvador	Mexico	Panama	HONDURAS
French Guiana	Haiti	Puerto Rico	MARTINIQUE
France	Germany, Fed. Rep.	Venezuela	MEXICO
Suriname	Canada	Antigua	NETHERLANDS ANTILLES
Colombia	Canada	Germany, Fed. Rep.	NICARAGUA
Venezuela	—	—	PANAMA
Colombia	Brazil	Mexico	PERU
Brazil	—	—	SURINAME
Italy	Paraguay	Chile	URUGUAY
Portugal	Peru	Dominican Republic	VENEZUELA
			WORLD ZONE 6
New Zealand	Australia	—	AMERICAN SAMOA
Philippines	China (Taiwan)	United States	BRUNEI
—	—	—	COOK ISLANDS
United States	Hong Kong	Singapore	FIJI

Table 14: (continued)
Reported Telephone Conversations (most frequently called country)

	MOST		FREQUENTLY	
CALLING AREA	FIRST	SECOND	THIRD	FOURTH
WORLD ZONE 6 (CONTINUED)				
FRENCH POLYNESIA	France	New Caledonia	United States	New Zealand
INDONESIA	Singapore	Japan	Hong Kong	United States
KIRIBATI (GILBERT ISLAND)	Australia	Nauru	Fiji	New Zealand
MALAYSIA	Hong Kong	United Kingdom	Japan	United States
NEW ZEALAND	Australia	United Kingdom	United States	Fiji
NIUE	New Zealand	—	—	—
NORFOLK ISLAND	Australia	New Zealand	United States	United Kingdom
NORTHERN MARIANAS	Guam	United States	Japan	Philippines
PAPUA NEW GUINEA	Australia	New Zealand	United Kingdom	Philippines
PHILIPPINES	United States	Hong Kong	Japan	China (Taiwan)
SINGAPORE	Indonesia	Hong Kong	United States	Japan
SOLOMON ISLANDS	Australia	Papua New Guinea	New Zealand	Japan
THAILAND	Malaysia	Hong Kong	Japan	United States
TONGA	New Zealand	Australia	United States	Fiji
TUVALU	Fiji	Australia	New Zealand	Nauru
WALLIS & FUTUNA	New Caledonia	France	Australia	New Zealand
WESTERN SAMOA	American Samoa	New Zealand	Australia	United States
WORLD ZONE 8				
BANGLADESH	United Kingdom	India	United States	Pakistan
CHINA (TAIWAN)	Japan	United States	Hong Kong	Singapore
HONG KONG	China (Taiwan)	Japan	Macao	United States
JAPAN	United States	Korea, Rep. of	Hong Kong	China (Taiwan)
MACAO	Hong Kong	China (Mainland)	Portugal	Thailand
WORLD ZONE 9				
BAHRAIN	Saudi Arabia	United Arab Emirates	United Kingdom	Kuwait
IRAN	United States	Germany, Fed. Rep.	United Kingdom	France
ISRAEL	United States	United Kingdom	France	Germany, Fed. Rep.
KUWAIT	Saudi Arabia	United States	United Kingdom	United Arab Emirates
MALDIVES	Sri Lanka	Singapore	India	United Kingdom
PAKISTAN	United Kingdom	Saudi Arabia	United Arab Emirates	Japan
QATAR	United Arab Emirates	United Kingdom	Bahrain	Saudi Arabia

Table 14: (continued)

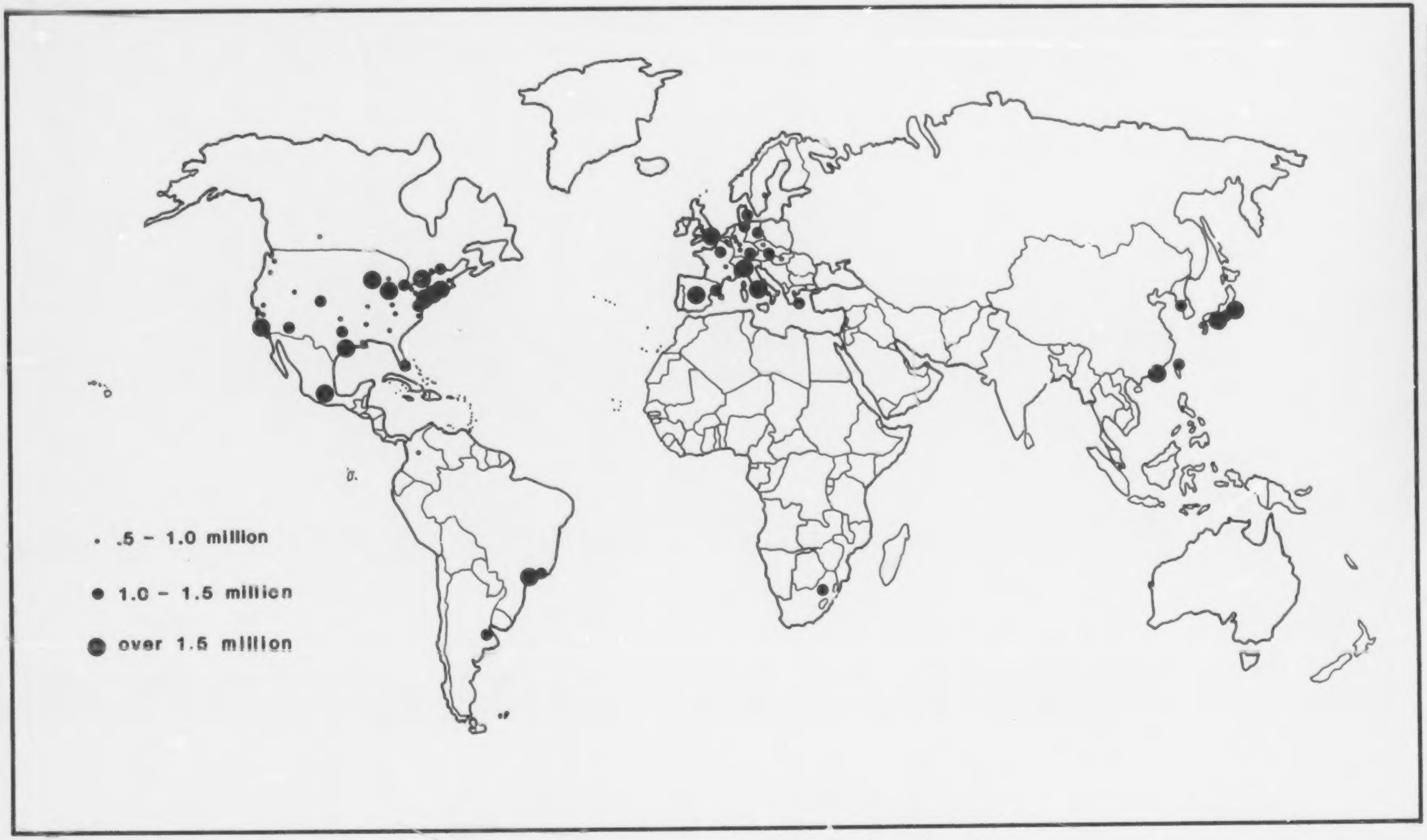
CALLED COUNTRY			
FIFTH	SIXTH	SEVENTH	CALLING AREA
			WORLD ZONE 6 (CONTINUED)
Australia	—	—	FRENCH POLYNESIA
China (Taiwan)	Australia	Netherlands	INDONESIA
United Kingdom	Japan	—	KIRIBATI (GILBERT ISLAND)
Australia	China (Taiwan)	Thailand	MALAYSIA
Western Samoa	Canada	Tonga	NEW ZEALAND
—	—	—	NIUE
Hong Kong	Canada	Papua New Guinea	NORFOLK ISLAND
Korea, Rep. of	—	—	NORTHERN MARIANAS
United States	Hong Kong	Singapore	PAPUA NEW GUINEA
Canada	Australia	Singapore	PHILIPPINES
United Kingdom	Australia	China (Taiwan)	SINGAPORE
United Kingdom	Fiji	Hong Kong	SOLOMON ISLANDS
Singapore	India	China (Taiwan)	THAILAND
—	—	—	TONGA
United Kingdom	United States	American Samoa	TUVALU
Fiji	Vanuatu (New Hebrides)	French Polynesia	WALLIS & FUTUNA
Fiji	Germany, Fed. Rep.	—	WESTERN SAMOA
			WORLD ZONE 8
Singapore	Japan	United Arab Emirates	BANGLADESH
Philippines	Korea, Rep. of	Indonesia	CHINA (TAIWAN)
United Kingdom	China (Mainland)	Singapore	HONG KONG
United Kingdom	Germany, Fed. Rep.	Singapore	JAPAN
China (Taiwan)	United States	Japan	MACAO
			WORLD ZONE 9
Qatar	United States	France	BAHRAIN
Italy	Switzerland	United Arab Emirates	IRAN
Switzerland	Italy	Belgium	ISRAEL
Bahrain	Egypt	Italy	KUWAIT
Germany, Fed. Rep.	—	—	MALDIVES
Kuwait	Italy	—	PAKISTAN
Egypt	Kuwait	United States	QATAR

Table 14: (continued)
Reported Telephone Conversations (most frequently called country)

	MOST		FREQUENTLY	
CALLING AREA	FIRST	SECOND	THIRD	FOURTH
WORLD ZONE 9 (CONTINUED)				
SAUDI ARABIA	United States	Kuwait	United Kingdom	Bahrain
SRI LANKA	United Kingdom	Singapore	Saudi Arabia	United States
SYRIA	Saudi Arabia	Jordan	Kuwait	Lebanon
TURKEY	Germany, Fed. Rep.	Switzerland	United Kingdom	United States
UNITED ARAB EMIRATES	United Kingdom	Bahrain	Qatar	Saudi Arabia

Table 14: (continued)

CALLED	COUNTRY		
FIFTH	SIXTH	SEVENTH	CALLING AREA
			WORLD ZONE 9 (CONTINUED)
United Arab Emirates	Egypt	Pakistan	SAUDI ARABIA
Japan	Hong Kong	Germany, Fed. Rep.	SRI LANKA
France	Germany, Fed. Rep.	United States	SYRIA
France	Netherlands	Austria	TURKEY
United States	Kuwait	Pakistan	UNITED ARAB EMIRATES


• .5 – 1.0 million
● 1.0 – 1.5 million
● over 1.5 million

Cities reporting over 500,000 telephones

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Table 15:
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 1			
BAHAMAS	75,071	209.5	31,839
Abaco	1,077	—	722
Andros	663	—	525
Bimini-Cat Cay	431	—	310
Deadman's Cay	93	—	20
Eight Mile Rock	1,106	—	635
Eleuthera	1,992	—	1,418
Exuma	218	—	149
Freeport	9,962	—	3,371
Fresh Creek	207	—	152
Governor's Harbour	552	—	389
Grand Bahama	15,314	—	6,383
Green Turtle Cay	104	—	88
Harbour Island	295	—	249
Inagua	120	—	93
Long Island	106	—	35
Marsh Harbour	790	—	505
Nassau	53,735	—	21,709
North Andros	456	—	373
Rock Sound	299	—	224
Spanish Wells	532	—	420
Stella Maris	13	—	15
Treasure Cay	80	—	50
BARBADOS	72,850	250.5	48,178
Bridgeton	35,065	100.0	21,274
BERMUDA	48,958	55.2	20,951
Hamilton	32,914	26.1	13,237
CANADA	15,741,723	24,343.2	10,010,410
Brantford	51,076	73.0	32,473
Calgary	565,256	593.0	236,482
Donacona	4,461	8.0	3,211
Edmonton	496,591	551.3	290,380
Fredericton	—	—	24,465
Gander	7,492	10.5	4,278
Gaspe	5,941	9.0	3,730
Grande Prairie	22,899	24.0	9,896
Halifax-Dartmouth	177,611	—	111,407
Hamilton	227,071	310.0	138,427
Hauterive	8,732	16.0	5,900
Havier St. Pierre	1,898	3.0	1,114
Kapuskasing	9,083	13.6	5,072
Kingston	75,872	107.0	46,014
Kitchener Area	136,298	197.0	84,932
Lethbridge	47,248	54.0	23,090
London	202,161	268.0	122,364
Marten River	240	0.5	208
Matane	10,276	17.0	6,895
Medicine Hat	32,101	40.0	16,712
Moncton	—	—	34,899
Montmagny	7,380	14.0	5,309
Montreal	1,291,090	1,535.0	752,745
Moose Factory	537	1.3	358
Moosonee	690	1.5	485
New Carlisle	4,087	8.0	2,691
Oshawa	79,600	122.0	48,675
Ottawa Area	502,140	640.0	252,021
Quebec City	296,696	423.0	169,810
Red Deer	42,048	45.0	19,437
Regina	146,013	164.3	76,397
Rimouski	27,043	38.0	19,368
Saint Georges	13,054	23.0	9,081
Saint John	—	115.0	33,611
Saint John's	101,911	—	62,698
Sainte Catharines	94,532	125.0	58,807

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 1 (CONTINUED)			
CANADA (CONTINUED)			
Sainte Marie	6,576	12.0	4,861
Saskatoon	144,064	154.2	81,694
Sept-Iles	17,415	29.0	11,708
Sherbrooke	73,587	114.0	48,366
Temagami	797	1.7	538
Temagami Lakes	141	0.3	105
Timmins	30,133	46.1	18,081
Toronto	1,844,150	2,132.0	1,008,070
Trois Rivieres	69,606	132.0	48,961
Vancouver	487,677	—	279,575
Victoria	165,684	—	102,038
Whitehorse	12,622	17.0	7,578
Windsor	135,210	197.0	81,764
Winnipeg	470,617	—	279,094
Yellowknife	8,667	9.5	5,789
CAYMAN ISLANDS	9,878	16.7	—
Bodden Town	—	1.6	499
Cayman Brac	—	1.7	412
East End	—	1.1	141
George Town	—	7.6	3,429
North Side	—	0.8	92
West Bay	—	3.9	743
DOMINICAN REPUBLIC	175,054	5,812.9	108,111
Barahona	1,076	72.0	900
Bonao	1,370	43.0	1,155
La Vega	2,453	54.0	1,858
Puerto Plata	2,381	57.0	1,805
San Cristobal	1,781	54.0	1,438
San Francisco De Macoris	1,817	78.0	1,455
San Pedro De Macoris	2,332	91.0	1,806
Santiago	20,291	288.0	14,029
Santo Domingo	138,169	1,350.0	93,495
JAMAICA	124,268	2,000.0	57,367
Kingston	90,871	700.0	42,987
Mandeville	4,103	15.0	2,035
Montego Bay	9,232	60.0	4,182
Ocho Rios	3,322	7.0	1,055
Spanish Town	2,136	41.0	897
MONTSERRAT	—	11.6	—
Plymouth	1,767	11.0	—
PUERTO RICO	676,447	3,079.0	439,372
Arecibo	16,779	93.0	—
Bayamon	67,515	233.0	—
Carolina	65,395	152.0	—
Humacao	10,908	54.0	—
Levittown	11,460	76.0	—
Mayaguez	28,839	107.0	—
Ponce	47,294	191.0	—
San Juan	261,835	504.0	—
Trujillo Alto	24,898	103.0	—
ST. LUCIA	9,600	1,113.0	5,000
Castries	7,000	—	4,000
ST. PIERRE & MIQUELON	3,166	6.0	2,202
Miquelon	227	0.6	214
Saint Pierre	2,929	5.4	1,988

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 1 (CONTINUED)			
ST. VINCENT	6,047	121.5	3,721
Calliaqua	1,412	19.9	932
Chateaubelair	57	8.2	48
Clifton	169	3.2	82
Georgetown	195	8.7	149
Kingstown	3,523	23.9	1,923
Layou	163	7.2	123
Mesopotamia	206	10.6	188
Port Elizabeth	322	5.7	276
UNITED STATES	181,893,000	231,012.0	94,457,000
Abilene, TX	94,286	132.0	47,379
Akron, OH	347,073	450.0	173,647
Albany, GA	84,585	109.0	38,721
Albany, NY	167,998	194.0	76,442
Albuquerque, NM	323,935	505.0	172,401
Alexandria, LA	80,159	116.0	40,875
Alexandria, VA	510,917	420.0	215,708
Alhambra, CA	173,163	212.0	96,119
Allentown, PA	152,039	160.0	72,570
Altoona, PA	59,741	75.0	31,262
Amarillo, TX	148,623	162.0	59,192
Anaheim, CA	238,004	287.0	119,471
Anchorage, AK	149,548	204.0	82,487
Anderson, IN	63,767	91.0	31,832
Ann Arbor, MI	138,037	128.0	56,255
Appleton, WI	68,359	102.0	35,934
Arlington Hts. Area, IL	116,087	122.0	51,546
Arlington, MA	36,693	64.0	22,688
Arlington, TX	124,795	165.0	63,803
Asheville, NC	81,150	101.0	39,134
Athens, GA	72,140	82.0	32,795
Atlanta, GA	959,000	991.0	393,213
Augusta, GA	166,494	227.0	75,183
Aurora, IL	101,209	119.0	45,085
Austin, TX	442,154	484.0	218,233
Bakersfield, CA	210,331	293.0	112,293
Baltimore, MD	1,528,116	1,681.0	740,790
Baton Rouge, LA	330,161	393.0	153,829
Bayonne, NJ	52,584	64.0	29,623
Baytown, TX	36,874	57.0	19,379
Beaumont,TX	108,312	118.0	55,534
Bellevue, WA	99,661	93.0	48,213
Bethlehem, PA	88,987	92.0	41,797
Billings,MT	88,371	102.0	43,582
Biloxi, MS	42,627	72.0	22,918
Binghamton, NY	83,944	117.0	47,197
Birmingham, AL	496,017	541.0	227,309
Bloomington, IN	64,304	96.0	29,271
Boca Raton, FL	110,372	82.0	51,904
Boise, ID	140,737	157.0	65,254
Boston, MA	544,889	648.0	249,608
Boynton Beach, FL	47,894	62.0	26,885
Bradenton, FL	102,215	116.0	66,592
Bridgeport Area, CT	187,946	223.0	93,012
Bristol, CT	47,044	66.0	27,080
Brockton, MA	78,686	112.0	42,796
Brookline, MA	88,434	91.0	42,171
Brownsville, TX	55,527	95.0	30,518
Buena Park, CA	56,690	75.0	27,151
Buffalo, NY	376,689	685.0	232,931
Burbank, CA	130,388	125.0	63,691
Cambridge, MA	120,765	124.0	49,919
Camden, NJ	74,240	89.0	30,912
Canton, OH	128,367	175.0	67,159
Casper, WY	74,426	75.0	35,167
Cedar Rapids, IA	131,443	149.0	61,372
Champaign, IL	116,844	123.0	51,086
Charleston, SC	215,742	294.0	96,484

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 1 (CONTINUED)			
UNITED STATES (CONTINUED)			
Charleston, WV	120,388	136.0	59,061
Charlotte, NC	407,836	404.0	175,383
Chattanooga, TN	255.611	346.0	125,579
Chicago, IL	2,757,128	2,988.0	1,252,818
Chicopee, MA	22,696	36.0	14,198
Chula Vista, CA	124,451	175.0	70,043
Cicero, IL	52,571	63.0	26,007
Cincinnati, OH	777,300	850.0	378,000
Clearwater, FL	256,049	293.0	163,469
Cleveland Area, OH	912,245	1,091.0	433,838
Colorado Springs, CO	252,798	320.0	125,069
Columbia, MO	82,000	98.0	45,431
Columbia, SC	295,229	346.0	128,641
Columbus, GA	144,942	198.0	66,248
Columbus, OH	477,599	499.0	213,496
Compton, CA	280,048	356.0	145,606
Concord, CA	108,117	147.0	59,894
Corpus Christi, TX	218,232	248.0	111,447
Council Bluffs, IA	52,773	66.0	26,214
Covina, CA	336,609	433.0	164,166
Dallas, TX	1,000,014	1,385.0	476,796
Danbury, CT	89,458	102.0	43,412
Danville, VA	56,217	85.0	31,571
Davenport, IA	123,011	147.0	59,072
Dayton Area, OH	370,704	441.0	181,032
Daytona, FL	134,643	200.0	73,299
Decatur, IL	98,128	106.0	44,140
Delray Beach, FL	75,693	61.0	40,284
Denton, TX	45,700	50.0	23,594
Denver Area, CO	1,491,069	1,630.0	739,882
Des Moines, IA	287,669	283.0	123,232
Des Plaines, IL	93,738	117.0	46,578
Detroit Area, MI	1,484,740	1,420.0	689,105
Downey, CA	295,239	360.0	144,119
Dubuque, IA	58,496	79.0	29,322
Duluth, MN	92,967	125.0	49,651
Durham, NC	134,222	157.0	72,738
East Bay Area, CA	615,845	668.0	334,154
East St. Louis, IL	65,019	84.0	28,585
Eau Claire, WI	55,242	71.0	28,269
El Cajon, CA	152,385	191.0	83,894
El Monte, CA	74,842	104.0	41,628
El Paso, TX	286,324	470.0	151,608
Elgin, IL	72,783	82.0	33,740
Elizabeth, NJ	100,916	114.0	50,736
Elyria, OH	56,866	61.0	35,497
Enid, OK	52,246	53.0	25,710
Erie, PA	150,016	185.0	80,357
Escondido, CA	97,404	98.0	54,045
Eugene-Springfield, OR	158,960	205.0	90,946
Evanston, IL	87,528	74.0	38,446
Evansville, IN	130,856	155.0	63,695
Everett, WA	86,770	100.0	44,783
Fairbanks, AK	38,889	54.0	15,283
Fairfield, CA	59,380	65.0	29,471
Fairfield, CT	33,136	35.0	15,936
Fall River, MA	85,407	123.0	51,199
Fargo, ND-Moorehead, MN	111,692	116.0	49,820
Farmington Area, MI	72,527	83.0	36,896
Fayetteville, NC	143,195	251.0	78,228
Flint, MI	225,715	242.0	108,335
Florissant, MO	65,610	104.0	34,122
Fort Collins, CO	76,895	104.0	40,371
Fort Smith, AR	63,536	83.0	34,102
Fort Wayne, IN	183,265	255.0	99,553
Fort Worth, TX	368,058	401.0	173,913
Framingham, MA	68,995	78.0	35,437
Fremont City, CA	151,375	228.0	84,567
Fresno, CA	294,896	379.0	154,114

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 1 (CONTINUED)			
UNITED STATES (CONTINUED)			
Ft. Lauderdale, FL	481,607	473.0	245,075
Ft. Myers, FL	92,161	81.0	53,908
Ft. Pierce, FL	52,598	63.0	28,481
Fullerton, CA	106,731	89.0	46,536
Gadsden, AL	57,721	83.0	30,992
Gainesville, FL	108,758	139.0	50,411
Galveston, TX	58,711	62.0	29,718
Garden Grove, CA	91,275	119.0	50,299
Garland, TX	95,950	140.0	47,981
Gary, IN	91,318	183.0	36,587
Gastonia, NC	71,315	88.0	33,997
Glendale, CA	113,652	112.0	62,044
Grand Prairie, TX	73,535	82.0	31,558
Grand Rapids Area, MI	319,351	385.0	161,181
Great Falls, MT	61,407	79.0	30,282
Greeley, CO	55,812	73.0	28,180
Green Bay, WI	99,806	150.0	54,397
Greensboro, NC	219,125	212.0	95,214
Greenville, SC	186,787	252.0	87,867
Gulfport, MS	63,613	99.0	32,278
Hamilton, OH	119,800	160.0	63,800
Hammond, IN	73,110	106.0	35,770
Harrisburg, PA	217,164	186.0	93,389
Hartford Area, CT	335,134	336.0	142,112
Hawthorne, CA	90,271	89.0	38,793
Hayward, CA	159,286	214.0	89,961
High Point, NC	85,091	111.0	46,552
Hollywood, FL	262,306	303.0	138,716
Honolulu, HI	403,821	373.0	219,086
Houma, LA	58,879	87.0	30,444
Houston Area, TX	1,562,990	1,618.0	785,614
Huntington Beach Area, CA	158,623	170.0	82,764
Huntington, WV	86,646	118.0	47,943
Huntsville, AL	157,082	185.0	66,478
Independence, MO	63,956	85.0	35,341
Indianapolis, IN	656,300	758.0	275,031
Inglewood, CA	149,660	147.0	71,882
Irving, TX	92,265	111.0	48,724
Jackson, MS	232,185	262.0	102,164
Jacksonville, FL	448,835	572.0	206,641
Janesville, WI	43,806	61.0	24,394
Jersey City, NJ	192,450	262.0	103,444
Joliet, IL	103,746	120.0	46,954
Kalamazoo, MI	165,347	183.0	75,309
Kansas City, KS	171,766	189.0	80,121
Kansas City, MO	335,397	285.0	135,083
Kenner, LA	87,972	121.0	46,480
Kenosha, WI	65,432	91.0	35,762
Kentucky-Metro. Area, KY	126,400	172.0	70,900
Knoxville, TN	234,038	298.0	117,148
La Mesa, CA	131,631	180.0	73,214
Lafayette, LA	116,213	122.0	58,022
Lake Charles, LA	97,813	118.0	49,932
Lakeland, FL	99,823	137.0	61,203
Lancaster, CA	49,618	71.0	25,818
Lancaster, PA	113,926	114.0	53,887
Lansing Area, MI	237,521	254.0	98,667
Laredo, TX	57,279	104.0	30,743
Las Vegas, NV	407,060	391.0	190,718
Lawrence, KS	50,335	56.0	24,083
Lawrence, MA	87,378	129.0	49,250
Lawton, OK	65,029	113.0	35,178
L[illegible]gton, KY	181,445	208.0	101,887
[illegible], OH	60,331	83.0	33,685
Lincoln, NE	174,117	193.0	83,550
Little Rock Area, AR	230,077	293.0	111,187
Livonia, MI	116,164	138.0	58,219
Long Beach, CA	384,294	451.0	211,956
Longview, TX	79,951	108.0	39,948

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 1 (CONTINUED)			
UNITED STATES (CONTINUED)			
Lorain, OH	51,400	89.0	34,215
Los Angeles, CA	1,978,561	1,800.0	850,993
Louisville, KY	571,703	680.0	284,927
Lowell, MA	113,521	175.0	61,336
Lubbock, TX	174,263	190.0	77,463
Lynchburg, VA	87,627	115.0	46,122
Lynn, MA	79,603	110.0	43,090
Macon, GA	123,229	156.0	59,763
Madison, WI	195,369	211.0	95,334
Malden, MA	40,121	55.0	24,386
Manchester, NH	35,598	101.0	45,403
Mansfield, OH	66,200	88.0	37,464
Medford, MA	35,050	62.0	22,077
Memphis, TN	640,431	809.0	310,914
Meriden, CT	42,949	58.0	23,685
Miami Area, FL	1,265,110	1,405.0	572,594
Middletown, OH	46,620	68.0	24,252
Midland, TX	94,813	88.0	41,593
Milford, CT	43,072	52.0	22,441
Milton, MA	36,003	55.0	18,641
Milwaukee Area, WI	873,718	1,176.0	465,315
Minneapolis-St. Paul Area, MN	1,697,467	1,722.0	798,004
Mobile, AL	258,601	363.0	132,665
Modesto, CA	141,472	196.0	75,608
Monroe, LA	102,820	137.0	51,013
Montebello, CA	82,360	83.0	41,380
Montgomery, AL	169,874	206.0	81,789
Mountain View, CA	84,473	93.0	41,806
Mt. Vernon, NY	115,226	160.0	69,229
Muncie, IN	79,166	107.0	38,206
Muskegon, MI	84,807	120.0	51,785
Napa, CA	58,296	77.0	31,541
Nashua, NH	79,085	92.0	36,534
Nashville, TN	425,903	511.0	204,489
National City, CA	63,762	96.0	35,632
New Bedford, MA	98,396	149.0	58,9[illegible]
New Britain, CT	62,356	88.0	37,038
New Haven Area, CT	282,714	301.0	132,990
New Iberia, LA	39,755	55.0	21,313
New Orleans, LA	801,040	996.0	404,237
New Rochelle, NY	65,446	71.0	37,330
New York, [illegible]	5,751,006	7,073.0	3,194,924
Newark, NJ	330,982	409.0	152,395
Newport Beach Area, CA	136,036	124.0	69,525
Newport News Area, VA	220,080	277.0	113,328
Newton, MA	80,156	98.0	40,380
Niagara Falls, NY	57,986	98.0	34,281
Norfolk Area, VA	511,162	722.0	260,354
Norwalk, CT	75,234	78.0	35,524
Oak Lawn, IL	133,262	166.0	65,871
Oak Park, IL	56,994	56.0	27,079
Oceanside, CA	79,928	139.0	44,665
Odessa, TX	109,681	123.0	52,203
Ogden, UT	95,492	155.0	48,327
Oklahoma City Area, OK	731,918	783.0	348,945
Omaha, NE	504,975	480.0	224,754
Ontaria, CA	151,978	159.0	78,209
Orange Area, NJ	137,248	146.0	68,894
Orange, CA	143,781	161.0	68,847
Orlando, FL	297,185	348.0	142,432
Overland Park, KS	152,236	152.0	66,157
Owensboro, KY	50,650	68.0	27,290
Oxnard, CA	138,956	187.0	72,256
Palo Alto, CA	164,743	141.0	70,275
Parkersburg, WV	58,147	84.0	32,050
Parma, OH	73,786	102.0	41,577
Pasadena, CA	214,516	209.0	102,335
Passaic Area, NJ	147,866	180.0	84,934
Paterson, NJ	130,983	179.0	67,069

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 1 (CONTINUED)			
UNITED STATES (CONTINUED)			
Pawtucket, RI	95,833	142.0	57,536
Pensacola, FL	166,089	245.0	78,842
Peoria, IL	205,385	206.0	86,749
Petersburg, VA	63,252	101.0	34,838
Philadelphia, PA	1,710,113	1,670.0	740,323
Phoenix Area, AZ	1,337,573	1,522.0	687,840
Pine Bluff, AR	52,898	82.0	28,934
Pittsburg, PA	818,641	850.0	371,345
Pittsfield, MA	47,444	55.0	24,004
Plano, TX	62,733	76.0	31,083
Pomona, CA	244,350	236.0	119,481
Pompano Beach, FL	208,644	229.0	110,130
Pontiac, MI	131,694	145.0	60,136
Port Arthur, TX	58,035	74.0	32,324
Portland, ME	58,019	62.0	27,897
Portland, OR	527,974	513.0	269,755
Providence Area, RI	288,962	350.0	147,613
Provo-Orem, UT	82,928	152.0	41,923
Pueblo, CO	86,937	124.0	47,736
Quincy, MA	70,772	87.0	39,395
Racine, WI	96,030	126.0	51,408
Raleigh, NC	229,929	232.0	96,861
Reading, PA	158,748	185.0	77,948
Redondo, CA	219,937	257.0	118,123
Redwood City, CA	66,203	80.0	37,330
Reno, NV	186,866	192.0	85,097
Richardson, TX	114,081	113.0	45,987
Richmond, CA	99,138	141.0	57,041
Richmond, VA	415,397	454.0	195,470
Riverside, CA	196,862	271.0	99,362
Roanoke, VA	132,821	193.0	69,878
Rochester, MN	78,533	78.0	31,563
Rochester, NY	312,870	534.0	168,129
Rockford, IL	202,215	210.0	87,527
Rome, GA	59,499	78.0	29,892
Roseville Area, MI	158,732	213.0	88,470
Royal Oak, MI	217,064	225.0	113,878
Sacramento, CA	601,470	715.0	301,129
Saginaw, MI	137,765	178.0	68,674
Saint Joseph, MO	67,236	79.0	35,014
Saint Louis, MO	589,056	640.0	273,690
Saint Petersburg, FL	334,721	401.0	219,002
Salem, OR	123,640	158.0	66,341
Salinas, CA	79,179	107.0	42,290
Salt Lake City, UT	558,914	731.0	258,726
San Angelo, TX	71,799	74.0	34,527
San Antonio, TX	429,350	684.0	224,136
San Bernardino, CA	111,716	156.0	56,554
San Diego, CA	562,021	638.0	281,844
San Francisco Area, CA	892,015	782.0	444,075
San Jose Area, CA	707,692	905.0	357,406
San Mateo, CA	140,982	158.0	75,883
Santa Ana, CA	583,981	513.0	273,607
Santa Barbara, CA	156,370	152.0	78,333
Santa Monica, CA	280,739	250.0	144,273
Santa Rosa, CA	122,788	147.0	67,136
Sarasota, FL	154,103	143.0	91,505
Savannah, GA	159,110	217.0	77,410
Schaumburg, IL	126,664	136.0	55,966
Schenectady, NY	128,248	171.0	73,662
Scranton, PA	93,667	106.0	48,632
Seattle, WA	697,116	580.0	349,110
Shreveport, LA	238,380	310.0	118,169
Simi, CA	57,356	94.0	30,017
Sioux City, IA	76,851	99.0	36,921
Sioux Falls, SD	86,682	91.0	39,649
Skokie, IL	156,738	120.0	62,865
Slidell, LA	36,998	50.0	19,894
Somerville, MA	50,765	89.0	34,237

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 1 (CONTINUED)			
UNITED STATES (CONTINUED)			
South Bend, IN	144,960	176.0	67,274
South San Francisco, CA	89,146	109.0	45,575
Southfield, MI	126,206	72.0	51,879
Spartanburg, SC	99,163	146.0	48,165
Spokane, WA	242,975	262.0	135,595
Springfield, IL	161,483	141.0	63,543
Springfield, MA	158,915	211.0	86,416
Springfield, MO	136,333	153.0	70,592
Springfield, OH	74,884	111.0	40,527
Stamford, CT	123,012	102.0	52,836
Stockton, CA	168,980	259.0	92,219
Sunnyvale, CA	137,400	112.0	53,192
Syracuse, NY	234,251	339.0	130,533
Tacoma, WA	261,362	291.0	148,079
Tallahassee, FL	128,806	150.0	76,855
Tampa, FL	483,990	628.0	294,108
Taunton, MA	39,452	56.0	22,549
Terre Haute, IN	78,469	111.0	42,119
Texarkana, TX	64,557	53.0	33,202
Thousand Oaks, CA	84,812	98.0	39,206
Toledo, OH	315,378	428.0	161,019
Topeka, KS	153,489	149.0	68,339
Torrance, CA	40,938	43.0	19,572
Trenton, NJ	108,960	142.0	46,107
Troy, MI	29,564	30.0	14,629
Troy, NY	75,526	139.0	50,098
Tucson, AZ	423,575	526.0	226,386
Tulsa, OK	462,418	524.0	221,882
Tuscaloosa, AL	95,151	134.0	48,903
Tyler, TX	89,042	119.0	43,598
Union City, NJ	140,419	172.0	80,349
Utica, NY	86,212	142.0	52,286
Valdosta, GA	45,432	60.0	21,693
Vallejo, CA	71,742	99.0	36,943
Ventura, CA	68,521	70.0	36,541
Vineland, NJ	52,419	70.0	26,464
Visalia, CA	61,954	77.0	32,789
Waco, TX	133,040	178.0	68,927
Walnut Creek, CA	99,545	112.0	51,917
Waltham, MA	76,062	80.0	32,087
Warren Area, MI	183,671	228.0	83,177
Warren, OH	79,066	110.0	44,183
Warwick, RI	41,678	62.0	23,094
Washington, DC	1,091,787	831.0	344,417
Waterbury, CT	91,121	116.0	47,851
Waterloo, IA	77,695	93.0	36,676
Waukegan, IL	109,206	120.0	45,549
Waukesha, WI	53,031	69.0	27,151
Wayne Area, MI	78,089	114.0	39,736
West Palm Beach, FL	375,905	331.0	191,078
Westminster, CA	103,083	142.0	49,786
Weymouth, MA	36,358	68.0	22,102
Wheeling, WV	52,758	67.0	27,906
White Plains, NY	118,504	100.0	45,300
Whittier, CA	215,151	287.0	109,414
Wichita Falls, TX	87,368	127.0	43,509
Wichita, KS	251,509	397.0	116,878
Wilkes-Barre, PA	73,239	87.0	38,286
Wilmington, DE	212,355	223.0	86,761
Wilmington, NC	83,695	100.0	39,476
Winston-Salem, NC	195,399	220.0	83,994
Winter Park, FL	174,993	195.0	94,650
Worcester, MA	144,967	185.0	76,265
Yonkers, NY	81,606	129.0	52,478
York, PA	112,810	121.0	58,320
Youngstown, OH	188,554	261.0	98,817

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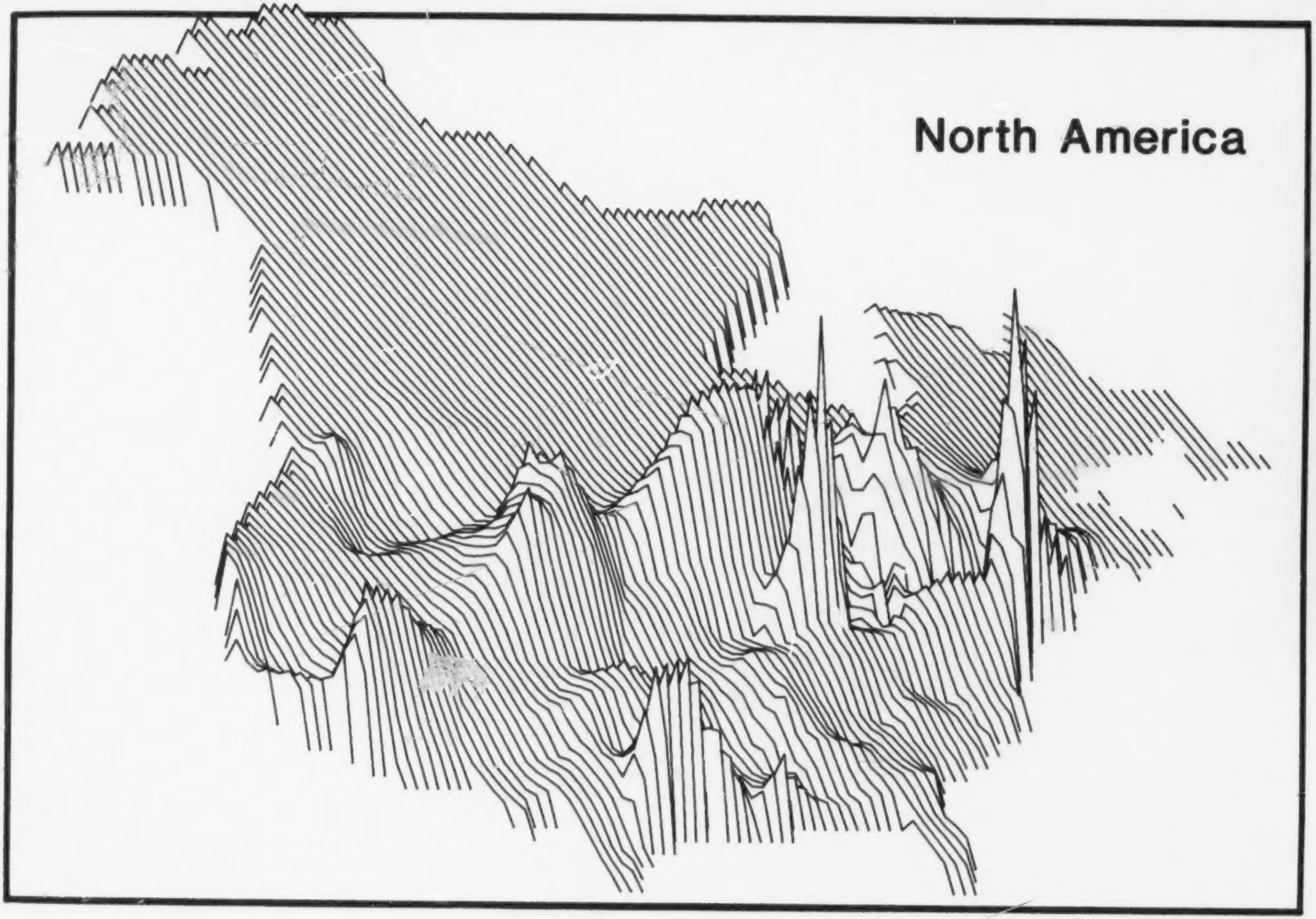

URBAN TELEPHONE SURFACE MAP OF NORTH AMERICA

The above figure shows the distribution of urban telephones. Data used included only cities with over 400,000 reported telephones. Peaks occur at cities with a relatively high number of reported telephones, such as New York, Chicago, and Houston. Areas which are relatively high include cities with a high number of reported telephones. Note that this figure does not represent rural telephone density, or per-capita telephones.

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 1 (CONTINUED)			
VIRGIN ISLANDS	44,285	98.3	28,142
St. Croix	19,721	50.9	12,945
St. John	1,003	2.5	711
St. Thomas	23,561	44.9	14,486
WORLD ZONE 2			
ALGERIA	606,869	18,500.0	408,211
Alger	186,312	—	—
Annaba	31,327	—	—
Batna	13,047	—	—
Bechar	6,006	—	—
Bejaia	6,209	—	—
Biskra	10,015	—	—
Blida	10,899	—	—
Bouira	5,099	—	—
Constantine	34,579	—	—
Djelfa	5,481	—	—
Ech.Cheliff	3,687	—	—
Guelma	7,013	—	—
Mascara	7,911	—	—
Medea	6,363	—	—
Mostaganem	10,119	—	—
Oran	48,428	—	—
Ouargla	7,198	—	—
Saida	9,444	—	—
Setif	20,303	—	—
Sidi-Bel-Abbes	10,504	—	—
Skikda	14,535	—	—
Tebessa	6,132	—	—
Tiaret	8,793	—	—
Tizi-Ouzou	12,474	—	—
Tlemcen	14,363	—	—
Touggourt	4,196	—	—
ASCENSION ISLAND	381	1.1	245
Georgetown	233	—	150
Two Boats	148	—	100
BURUNDI	5,601	4,021.9	5,041
Bubanza	—	242.5	22
Bujumbura	—	460.3	4,561
Burnri	—	309.0	44
Cankuzo	—	107.4	1
Cibitoke	—	116.6	22
Gitega	—	683.0	263
Kayanza	—	428.2	3
Kirundo	—	237.8	28
Makamba	—	142.3	3
Muramuya	—	380.3	17
Muyinga	—	308.6	22
Ngozi	—	345.1	88
Nyanza-Lac	—	6.3	2
Rutana	—	118.2	4
Ruyigi	—	166.4	11
CONGO	8,899	1,400.0	8,761
Brazzaville	—	302.4	4,592
Djambala	—	18.7	105
Gamboma	—	38.3	67
Impfondo	—	7.2	107
Kinkala	—	40.6	96
Loubomo	—	28.5	395
Loudima	—	17.4	34
Loutete	—	15.0	62

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 2 (CONTINUED)			
CONGO (CONTINUED)			
Madingou	—	20.5	80
Makabana	—	13.8	73
Makoua	—	16.2	102
Mindouli	—	34.4	58
Mouyondzi	—	52.4	48
Nkayi	—	29.0	149
Ouesso	—	20.0	138
Owando	—	25.6	168
Pointe-Noire	—	140.3	2,387
Sibiti	—	29.6	90
EGYPT	**521,325**	**44,000.0**	—
Alex 1	—	—	30,446
Alex 11	—	—	45,733
Amiriya	—	—	341
Assiut	—	—	11,624
Asswan	—	—	4,088
Benha	—	—	3,532
Beni Souef	—	—	4,561
Cairo	—	—	247,595
Damanhour	—	—	9,474
Damietta	—	—	5,457
El Fayoum	—	—	4,316
El Ismailia	—	—	3,023
El Mansoura	—	—	18,149
El Minia	—	—	9,457
El Suez	—	—	2,738
El Wadi El Guecid	—	—	1,568
El Zagazig	—	—	13,663
Ghardaa	—	—	851
Kafr El Sheikh	—	—	7,559
Matruh	—	—	10,208
North Sinai	—	—	1,098
Port Said	—	—	10,619
Quena	—	—	6,698
Shebin El Kom	—	—	11,945
Sohag	—	—	7,709
South Sinai	—	—	194
Tanta	—	—	13,758
ETHIOPIA	**100,783**	**32,272.0**	**77,328**
Addis Ababa	50,307	1,253.0	43,161
Adigrat	181	13.0	181
Agaro	339	20.0	333
Akaki	261	34.0	201
Arba Minch	284	15.0	245
Asbeteferi	240	17.0	233
Asmara	11,634	416.0	9,297
Assab	1,161	24.0	965
Assela	540	34.0	343
Awassa	755	26.0	561
Bahr Dar	806	51.0	516
Bale Goba	329	21.0	254
Combolcha	201	10.0	169
Debre Berhan	412	24.0	400
Debre Marcos	599	37.0	499
Debre Zeit	806	48.0	475
Dembi Dollo	146	12.0	146
Dessie	1,008	73.0	999
Dilla	235	23.0	227
Dire Dawa	2,267	80.0	1,853
Ghimbi	183	13.0	178
Ghion	147	21.0	140
Gondar	1,268	75.0	923
Hagre Hiwot	220	16.0	195
Harrar	1,179	61.0	995
Jijiga	224	13.0	218

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 2 (CONTINUED)			
ETHIOPIA (CONTINUED)			
Jimma	1,480	63.0	1,293
Makale	925	46.0	846
Massawa	987	32.0	635
Mattu	283	10.0	256
Nazareth	1,886	68.0	1,727
Negelle Borena	127	14.0	120
Nekempti	494	27.0	400
Shashemene	572	23.0	537
Shoa	154	47.0	145
Welamo Soddo	231	18.0	205
Woldia	183	15.0	163
Wondo	123	14.0	123
Wonji	207	—	184
Yirgalem	246	22.0	227
GABON	11,133	638.0	11,133
Bitam	129	8.8	—
Franceville	329	20.0	—
Koulamoutou	159	11.9	—
Lambarene	181	26.3	—
Lastourville	63	—	—
Libreville	8,108	225.3	—
Makokou	157	7.4	—
Moanda	213	22.9	—
Mouila	155	22.2	—
Ndjole	109	11.1	—
Oyem	255	18.4	—
Port-Gentil	1,133	103.3	—
Tchibanga	142	24.1	
GHANA	70,653	11,642.3	37,239
Accra	39,137	998.7	16,750
Bolgatanga	575	42.1	575
Cape Coast	1,391	69.3	989
Ho	1,131	32.6	558
Koforidua	1,691	55.5	948
Kumasi	7,594	401.6	4,599
Sekondi-Takoradi	4,448	117.7	2,492
Sunyani	1,237	68.0	499
Tamale	1,604	191.2	1,001
GUINEA-BISSAU	—	800.0	—
Bafata	187	50.0	—
Bissau	2,520	100.0	—
Bolama	42	20.0	—
Bubaque	38	17.0	—
Cacheu	26	30.0	—
Canchungo	105	40.0	—
Catio	29	18.0	—
Farim	55	25.0	—
Fulacunda	16	15.0	—
Gabu	90	40.0	—
Mansoa	41	36.0	—
KENYA	216,674	16,500.0	90,371
Eldoret	3,180	69.0	1,334
Kisumu	5,808	243.0	2,664
Machakos	1,004	183.0	381
Malindi	1,081	29.0	585
Mombasa	27,138	376.0	11,908
Nairobi	123,206	958.0	47,655
Nakuru	6,738	114.0	2,579
Nanyuki	1,323	22.0	439
Nyeri	2,578	52.0	930
Thika	2,949	53.0	1,330

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 2 (CONTINUED)			
MALI	8,485	7,165.0	5,249
Bamako	5,526	509.0	3,454
Gao	154	39.0	98
Kayes	213	56.0	151
Koulikoro	175	21.0	86
Mopti	195	68.0	172
Segou	682	82.0	254
Sikasso	393	59.0	236
Tombouctou	93	26.0	70
MOROCCO	241,100	22,000.0	177,400
Agadir	—	100.0	3,258
Beni Mellal	—	95.0	1,352
Casablanca	—	3,000.0	53,960
El Jadida	—	89.0	1,586
Fes	—	462.0	9,176
Kenitra	—	194.0	3,253
Laayoune	—	36.0	1,222
Marrakech	—	472.0	6,611
Meknes	—	357.0	5,860
Mohammedia	—	108.0	1,687
Nador	—	63.0	1,770
Oujda	—	252.0	3,764
Rabat Sale	—	735.0	23,700
Safi	—	182.0	2,398
Settat	—	77.0	1,093
Tanger	—	273.0	8,305
Taza	—	82.0	1,772
Tetouan	—	194.0	3,400
MOZAMBIQUE	56,305	12,565.0	35,405
Beira	—	—	6,026
Chimoio	—	—	574
Inhambane	—	—	399
Lichinga	—	—	351
Maputo	—	—	18,244
Nacala	—	—	347
Nampula	—	—	1,710
Pemba	—	—	561
Quelimane	—	—	1,156
Tete	—	—	1,007
Xai Xai	—	—	647
NAMIBIA(SOUTHWEST AFRICA)	57,333	961.0	33,868
Windhoek	33,608	100.0	29,698
NIGERIA	708,390	100,000.0	217,974
Aba	9,250	—	3,000
Abakaliki	2,750	—	1,000
Abeokuta	6,875	—	2,500
Ado-Ekiti	2,750	—	1,000
Agbor	6,875	—	2,500
Akure	5,500	—	2,000
Auchi	2,750	—	1,000
Azare	2,200	—	800
Bauchi	2,750	—	1,000
Benin-City	26,400	—	9,600
Bida	1,788	—	650
Calabar	8,250	—	3,000
Daura	2,888	—	1,050
Enugu	44,688	—	16,250
Ibadan	33,138	3.0	12,050
Ijebu-Ode	16,500	—	6,000
Ile-Ife	1,650	—	500
Jos	11,000	—	4,000
Kaduna	32,175	—	11,700

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 2 (CONTINUED)			
NIGERIA (CONTINUED)			
Kano	14,575	—	5,300
Lagos	249,150	8.0	90,600
Lokoja	2,750	—	1,000
Maiduguri	2,750	—	1,000
Makurdi	2,750	—	1,000
Minna	2,750	—	1,000
New Bussa	138	—	50
Okitipupa	1,375	—	500
Onitsha	8,663	—	3,150
Oshogbo	1,788	—	650
Owerri	3,575	—	1,300
Owo	2,750	—	1,000
Oyo	4,125	—	1,500
Port-Harcourt	41,250	—	15,000
Sapele	6,325	—	2,300
Sokoto	3,575	—	1,300
Umuahia	2,750	—	1,000
Uyo	1,650	—	600
Warri	17,050	—	6,200
Yola	2,750	—	1,000
Zaria	4,950	—	1,800
REUNION	**81,175**	**515.8**	**48,142**
St. Denis	23,223	109.0	12,754
SOUTH AFRICA	**3,206,730**	**24,532.0**	**1,669,670**
Bloemfontein	51,881	257.0	31,747
Cape Town	421,382	1,596.0	270,609
Durban	321,359	1,026.0	193,562
East London	39,777	166.0	24,964
Johannesburg Area	1,033,717	3,849.0	551,737
Kimberley	20,453	151.0	12,886
Pietermaritzburg	47,691	189.0	29,751
Port Elizabeth	101,911	601.0	65,380
Pretoria	284,365	798.0	147,552
Vereeniging	62,786	579.0	37,957
CISKEI	**5,441**	**1,160.0**	**3,340**
Mdantsane	1,745	158.0	1,475
Zwelitsha	1,500	51.0	671
SUDAN	**68,503**	**19,430.0**	**48,660**
Atbara	2,138	81.1	1,390
Damazien	283	16.2	246
Damer	272	19.3	272
Dongola	396	6.4	395
Dueim	327	47.5	287
Fasher	689	92.8	542
Gadarif	768	126.6	678
Juba	1,112	170.5	864
Kadgli	228	23.4	205
Kassala	854	194.7	732
Khartoum	43,923	1,7[illegible]2.2	29,647
Kosti	749	18.3	703
Malakal	493	85.1	273
New Halfa	491	44.5	378
Nyala	663	170.9	594
Obied	1,504	151.4	996
Port-Sudan	4,818	258.7	3,892
Rombiek	16	28.7	13
Sennar	789	51.7	590
Wadmedany	1,800	194.2	1,220
Wall	360	168.3	323

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 2 (CONTINUED)			
SWAZILAND	15,357	562.0	5,507
Manzini	3,309	29.2	1,615
Mbabane	6,105	24.0	3,600
Nhlangano	586	2.5	317
Piggs Peak	268	2.3	143
Siteki	373	1.5	216
TANZANIA	96,521	17,400.0	—
Arusha	6,149	101.0	1,985
D'Salaam	41,272	1,018.0	17,510
Dodoma	2,739	200.0	1,020
Mwanza	4,840	198.0	1,990
Tanga	4,937	165.0	2,532
Zanzibar	3,364	125.0	998
ZAMBIA	32,669	6,030.0	27,721
Chingola	3,001	145.0	1,799
Chipata	1,265	203.0	413
Kabwe	2,823	143.0	1,521
Kitwe	7,972	314.0	6,328
Livingstone	2,826	71.0	1,166
Luanshya	2,170	132.0	1,388
Lusaka	19,118	538.0	8,455
Mufulira	2,296	149.0	1,517
Ndola	8,849	282.0	4,997
WORLD ZONE 3 & 4			
ANDORRA	17,719	38.1	10,313
Andorra La Vella	—	14.9	4,150
Canillo	—	0.7	263
Encamp	—	4.2	742
Escaldes	—	10.5	2,210
La Massana	—	2.5	410
Ordino	—	0.7	170
St. Julia	—	4.5	963
AUSTRIA	3,177,944	7,555.3	2,322,628
Bregenz	25,796	24.7	15,993
Eisenstadt	6,719	10.2	4,914
Graz	144,951	243.4	103,951
Innsbruck	83,801	116.1	55,351
Klagenfurt	51,697	86.3	34,023
Linz	139,440	198.0	89,841
Salzsburg	109,755	138.2	67,219
Wien	1,088,631	1,515.7	782,459
BELGIUM	3,818,626	9,879.0	2,811,926
Aalst	36,585	111.0	26,984
Antwerp	349,363	681.0	222,518
Bruges	59,220	148.0	39,688
Brussels	839,639	1,160.0	448,064
Charleroi	125,528	377.0	92,014
Ghent	148,300	334.0	95,872
Kortrijk	38,994	79.0	23,113
La Louviere	20,702	67.0	15,099
Leuven	54,338	143.0	39,687
Liege	201,943	499.0	139,773
Mechelen	38,005	92.0	26,708
Mons	40,241	105.0	26,211
Namur	35,739	76.0	22,781
Ostend	31,164	68.0	21,787
Verviers	30,199	75.0	20,668

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 3 & 4 (CONTINUED)			
CYPRUS	128,507	641.6	80,495
Larnaca	10,000	37.0	7,234
Limassol	31,000	115.0	21,846
Nicosia	59,000	150.0	39,473
Paphos	4,000	15.0	2.873
CZECHOSLOVAKIA	3;225,968	15,344.7	1,684,044
Bratislava	193,144	388.0	94,908
Brno	141,835	376.0	71,717
Kosice	66,166	207.0	42,874
Ostrava	114,724	325.0	58,388
Plzen	55,895	173.0	33,181
Praha	643,279	1,193.0	364,076
DENMARK	3,483,323	5,119.2	2,313,376
Aalborg	104,600	154.4	68,900
Aarhus	183,400	246.5	119,100
Esbjerg	50,600	80.0	34,100
Koebenhavn	1,187,000	1,274.0	692,000
Odense	111,000	170.0	74,000
Randers	39,700	62.2	27,700
FINLAND	2,511,306	4,814.0	1,895,624
Espoo	97,437	141.6	65,086
Helsinki	462,862	483.3	300,513
Jyvaskyla	39,119	64.6	25,644
Kuopio	39,229	75.4	27,037
Lahti	53,044	94.6	38,659
Oulu	55,940	94.6	34,773
Pori	42,213	79.5	29,704
Tampere	101,896	166.9	70,542
Turku	108,958	163.8	81,477
Vaasa	31,352	53.8	20,395
Vantaa	58,028	133.2	42,874
FRANCE	25,940,295	54,098.0	17,616,725
Bordeaux	193,425	—	113,471
Lille	225,392	—	125,486
Lyon(Agglom)	813,171	—	491,203
Marseille	526,262	—	354,657
Nancy	149,726	—	91,952
Paris(Ville)	—	—	1,397,828
Rouen	246,815	—	131,352
Toulouse	233,046	—	121,066
GERMANY, FEDERAL REP.	30,122,023	61,713.0	22,089,465
Aachen	129,494	228.0	88,538
Augsburg	171,853	330.0	125,325
Berlin(West)	1,326,462	1,896.0	1,033,813
Bielefeld	153,965	270.0	106,363
Bochum	165,887	340.0	127,683
Bonn	239,864	321.0	137,806
Braunschweig	147,906	241.0	105,567
Bremen	373,298	598.0	261,345
Dortmund	328,551	619.0	247,232
Duisburg	230,095	449.0	173,955
Dusseldorf	512,489	607.0	311,073
Essen	374,338	634.0	273,438
Frankfurt/Offenbach	646,444	747.0	371,785
Gelsenkirchen	145,280	320.0	116,637
Hamburg	1,319,824	1,890.0	915,993
Hannover	450,125	646.0	303,457
Karlsruhe	185,452	295.0	121,710
Kassel	153,449	260.0	107,601

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 3 & 4 (CONTINUED)			
GERMANY, FEDERAL REP. (CONTINUED)			
Kiel	178,02[illegible]	294.0	128,711
Koln	554,9[illegible]	872.0	366,036
Krefeld	142,7[illegible]	258.0	105,681
Lubeck	136,[illegible]	242.0	105,692
Mannheim	201,[illegible]	312.0	131,425
Munchen	1,133,[illegible]	1,604.0	733,296
Munster	140,[illegible]	218.0	87,746
Nurnberg/Furth	411,457	671.0	291,946
Oberhausen/Mulheim	207,197	409.0	162,402
Stuttgart	574,315	827.0	352,246
Wiesbaden	162,381	232.0	103,371
Wuppertal	219,797	392.0	164,457
GERMAN DEMOCRATIC REP.	**3,251,950**	**16,732.0**	**1,397,086**
Berlin	474,618	1,153.0	246,047
Cottbus	28,011	115.0	11,516
Dresden	155,084	516.0	52,677
Erfurt	56,955	212.0	22,828
Frankfurt/Oder	18,610	80.0	7,584
Gera	29,162	127.0	10,876
Halle	79,986	232.0	23,746
Karl-Marx-Stadt	97,137	318.0	38,117
Leipzig	168,929	586.0	71,319
Magdeburg	67,860	289.0	24,809
Neubrandenburg	21,724	80.0	11,309
Potsdam	39,059	134.0	16,473
Rostock	51,735	234.0	17,714
Schwerin	35,704	122.0	14,633
Suhl	13,495	51.0	4,667
GUERNSEY--CHANNEL ISLANDS	**38,634**	**55.6**	**23,309**
St. Peter Port	16,043	15.6	8,058
JERSEY--CHANNEL ISLANDS	**55,461**	**76.1**	**32,677**
St. Helier	35,223	25.7	20,063
GREECE	**2,95[illegible],663**	**9,780.0**	**2,401,169**
Athens	1,[illegible]39,886	2,503.0	1,050,289
Chalkis	13,338	45.0	10,918
Corfu	20,090	36.0	12,829
Heraclion	32,402	110.0	25,379
Hrodes	28,716	41.0	10,058
Kavala	19,463	56.0	15,847
Larisa	31,153	103.0	25,815
Patras	55,614	151.0	46,101
Piraeus	203,067	513.0	162,907
Thessaloniki	268,686	653.0	236,680
Volos	27,676	121.0	23,975
Yiannina	19,586	44.0	15,886
HUNGARY	**1,296,682**	**10,711.0**	**636,625**
Budapest	681,914	2,062.0	365,645
Debrecen	31,610	196.0	14,397
Gyor	24,409	127.0	10,869
Miskolc	41,272	210.0	22,026
Pecs	33,817	172.0	16,263
Szeged	27,241	174.0	10,521
ICELAND	**111,358**	**231.9**	**—**
Akureyri	6,199	13.6	4,973
Hafnarfjorour	5,718	13.1	4,702
Kopavogur	6,980	18.4	5,922
Reykjavik	57,244	87.9	41,684

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 3 & 4 (CONTINUED)			
IRELAND	720,000	3,468.0	536,000
Cork	52,097	144.0	38,734
Dublin	331,517	1,027.0	246,481
Limerick	22,136	64.0	16,458
ITALY	20,444,037	56,244.0	13,854,836
Alessandria	54,087	109.0	35,519
Ancona	57,646	108.0	38,017
Bari	165,395	420.0	110,326
Bergamo	141,059	307.0	86,389
Biella	59,862	128.0	39,271
Bologna	350,052	585.0	237,954
Bolzano	77,827	152.0	46,776
Brescia	144,677	329.0	91,543
Busto Arsizio	66,829	150.0	40,746
Cagliari	124,121	310.0	77,282
Catania	175,149	461.0	120,849
Como	92,178	176.0	58,369
Ferrara	68,543	158.0	47,492
Firenze	367,942	618.0	241,568
Foggia	52,106	159.0	36,079
Forli'	56,750	127.0	39,066
Gallarate	69,389	167.0	42,564
Genova	487,969	815.0	324,579
La Spezia	76,564	169.0	54,075
Lecce	53,836	158.0	37,522
Legnano	73,815	177.0	47,453
Livorno	84,494	176.0	59,170
Lucca	56,855	139.0	38,555
Mantova	53,972	117.0	31,721
Massa Carrara	51,032	145.0	36,690
Messina	94,414	274.0	66,165
Milano	1,630,234	2,287.0	979,383
Modena	114,427	228.0	77,984
Monza	112,361	241.0	76,995
Napoli	589,637	1,666.0	424,458
Novara	58,582	116.0	38,013
Padova	192,604	391.0	112,914
Palermo	274,900	748.0	198,813
Parma	96,881	177.0	65,361
Pavia	56,777	110.0	38,387
Perugia	69,047	153.0	45,845
Pescara	83,045	198.0	54,045
Piacenza	57,332	117.0	40,526
Pisa	57,688	102.0	34,434
Prato	84,062	188.0	56,671
Ravenna	62,790	141.0	42,301
Reggio Di Calabria	55,034	186.0	39,676
Reggio Nell'Emilia	77,836	157.0	50,362
Rho	51,287	116.0	34,310
Rimini	65,779	129.0	40,696
Roma	1,679,229	2,948.0	1,086,509
Salerno	77,689	247.0	56,356
Sassari	51,269	153.0	34,106
Savona	55,436	114.0	39,901
Seregno	50,046	131.0	35,335
Taranto	84,656	249.0	59,965
Terni	51,395	121.0	35,735
Torino	857,245	1,464.0	548,090
Trento	59,207	122.0	38,300
Treviso	74,885	180.0	47,746
Trieste	169,647	289.0	120,126
Udine	75,340	165.0	49,049
Varese	81,256	172.0	52,611
Venezia	203,691	397.0	135,445
Verona	157,998	339.0	101,136
Vicenza	87,027	202.0	55,497

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 3 & 4 (CONTINUED)			
LIECHTENSTEIN	**21,437**	**26.0**	**10,600**
Vaduz	14,436	15.0	6,799
LUXEMBOURG	**228,000**	**364.0**	**—**
Esch-Alzette	66,826	25.0	39,667
Luxembourg	103,352	78.0	61,350
MALTA	**90,997**	**320.0**	**60,507**
Valletta	8,523	14.0	—
MONACO	**17,000**	**28.0**	**17,000**
Monaco	17,000	28.0	—
NETHERLANDS	**7,769,115**	**14,286.0**	**5,436,400**
Amsterdam Area	—	715.0	349,778
Apeldoorn	—	142.0	49,854
Arnhem	—	129.0	61,896
Breda	—	118.0	52,837
Dordrecht	—	109.0	42,310
Eindhoven	—	196.0	82,116
Enschede	—	145.0	51,234
Groningen	—	165.0	70,620
Haarlem Area	—	200.0	73,173
Leiden Area	—	140.0	55,387
Maastricht	—	111.0	40,563
Nijmegen	—	147.0	58,065
Rotterdam Area	—	641.0	297,324
S'Gravenhage Area	—	549.0	249,069
Utrecht Area	—	267.0	110,558
Zaanstad	—	130.0	48,260
NORWAY	**1,992,090**	**4,106.5**	**1,174,632**
Aalesund	18,793	35.0	—
Bergen	121,397	207.0	—
Bodo	16,779	33.0	—
Drammen	26,202	50.0	—
Fredrikstad	16,025	28.0	—
Gjovik	11,326	26.0	—
Halden	11,262	26.0	—
Haugesund	15,449	27.0	—
Kristiansand	32,950	61.0	—
Moss	12,812	25.0	—
Oslo	421,033	450.0	—
Porsgrunn	[illegible]4,672	31.0	—
Ringerike	[illegible]909	27.0	—
Sandefjord	16,609	35.0	—
Sandnes	15,151	37.0	—
Skien	21,367	47.0	—
Stavanger	53,823	91.0	—
Tromso	22,688	47.0	—
Trondheim	74,008	135.0	—
POLAND	**3,505,656**	**36,062.0**	**1,970,590**
Bydgoszcz(Bromberg)	65,600	352.0	—
Gdansk(Danzig)	83,200	459.0	—
Katowice(Kattowitz)	81,000	364.0	—
Krakow(Cracow)	117,000	723.0	—
Lodz	166,000	843.0	—
Poznan(Posen)	122,600	558.0	—
Szczecin(Stettin)	71,200	390.0	—
Warszawa(Warsaw)	472,500	1,612.0	—
Wroclaw	119,200	622.0	—

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 3 & 4 (CONTINUED)			
PORTUGAL	**1,465,804**	**9,804.0**	**1,057,305**
Aveiro	10,162	73.7	7,680
Braga	12,025	112.4	8,596
Coimbra	23,354	95.9	16,785
Faro	9,341	37.5	6,286
Funchal	22,486	118.0	15,954
Lisboa	427,368	808.9	265,618
Ponta Delgada	9,551	47.2	5,867
Porto	152,145	329.1	101,021
Setubal	13,069	88.8	10,353
SAN MARINO	**8,712**	**21.7**	**5,645**
San Marino	8,712	21.7	5,645
SPAIN	**12,350,058**	**37,683.0**	**7,204,861**
Barcelona	1,296,624	1,752.6	767,137
Bilbao	381,191	502.2	248,046
Madrid	1,906,566	3,158.8	1,132,548
Palma De Mall	181,440	--	95,768
Sevilla	259,723	645.8	159,184
Valencia	406,608	774.7	248,298
Zaragoza	247,713	571.8	173,689
SWEDEN	**6,889,000**	**8,323.0**	**4,462,000**
Boras	80,178	102.0	57,419
Eskilstuna	68,892	90.0	49,634
Gavle	71,934	88.0	52,370
Goteborg	436,652	428.0	285,741
Halmstad	63,068	76.0	44,658
Helsingborg	88,054	102.0	61,063
Jonkoping	67,763	107.0	60,382
Karlstad	73,996	74.0	51,283
Linkoping	98,856	113.0	67,466
Lund	73,069	79.0	47,125
Malmo	228,419	232.0	153,334
Norrkoping	98,012	119.0	71,513
Orebro	101,709	117.0	72,074
Skelleftea	56,253	74.0	40,943
Sodertalje	59,098	80.0	42,697
Stockholm	849,809	647.0	525,785
Sundsvall	80,948	95.0	56,875
Umea	69,250	82.0	48,278
Uppsala	125,588	148.0	89,605
Vasteras	97,687	117.0	64,427
SWITZERLAND	**4,780,780**	**6,384.0**	**2,924,878**
Aarau	56,843	79.0	33,835
Basel	302,314	289.0	160,656
Berne	230,516	242.0	131,124
Biel	62,457	80.0	41,124
Freiburg	38,735	51.0	22,221
Geneva	344,527	297.0	191,416
La Chaux-De-Fonds	26,598	38.0	17,479
Lausanne	178,057	208.0	111,944
Lucerne	119,766	159.0	72,408
Lugano	74,418	74.0	42,774
Neuchatel	41,155	53.0	26,123
Solothurn	50,660	45.0	31,579
St. Gallen	74,893	84.0	44,931
Winterthur	77,800	94.0	46,248
Zurich	473,417	380.0	252,059
UNITED KINGDOM	**26,375,982**	**55,982.0**	**19,088,641**
Belfast	178,216	368.3	108,392
Birmingham	507,425	1,022.3	324,669
Bolton	104,523	263.0	76,642

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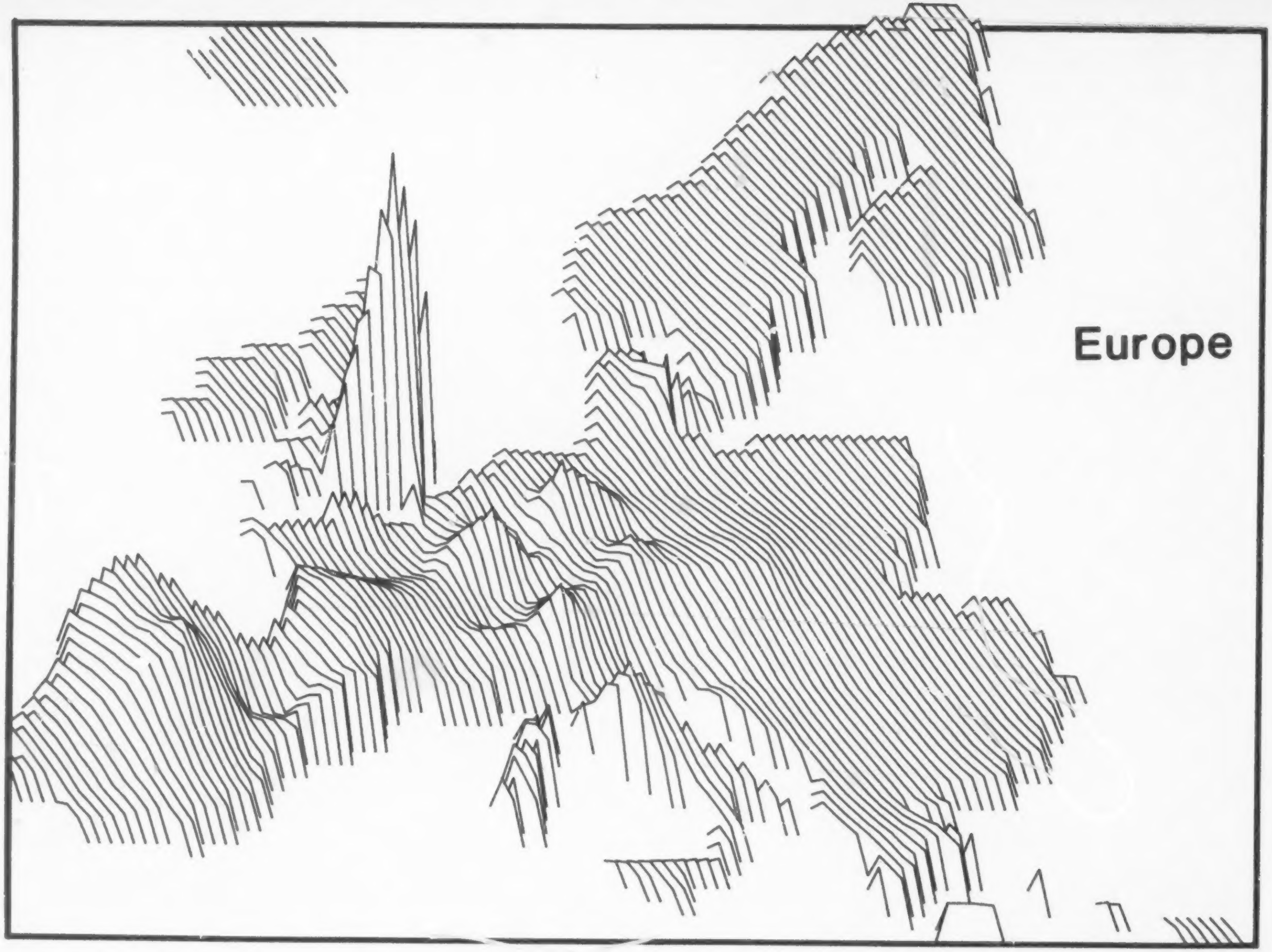

URBAN TELEPHONE SURFACE MAP OF EUROPE

The above figure shows the distribution of urban telephones. Data used included only cities with over 400,000 reported telephones. Peaks occur at cities with a relatively high number of reported telephones, such as London, Madrid, and Rome. Areas which are relatively high include cities with a high number of reported telephones. Note that this figure does not represent rural telephone density, or per-capita telephones.

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 3 & 4 (CONTINUED)			
UNITED KINGDOM (CONTINUED)			
Bradford	176,852	464.1	125,041
Bristol	255,548	400.3	166,170
Cardiff	158,051	281.3	95,094
Coventry	147,269	318.6	97,930
Derby	116,812	216.5	82,090
Edinburgh	266,589	475.1	161,388
Glasgow	386,927	819.[illegible]	255,261
Kirgston-Upon-Hull	177,535	272.5	125,989
Leeds	210,543	718.1	157,867
Leicester	195,142	283.0	139,325
Liverpool	623,916	518.9	431,342
London	5,916,147	6,851.4	3,469,272
Manchester	298,873	464.2	203,114
Newcastle-Upon-Tyne	85,444	285.3	62,415
Nottingham	256,658	277.5	175,013
Plymouth	81,823	250.3	62,428
Sheffield	265,297	547.6	186,701
Southampton	119,146	208.8	77,302
Stoke On Trent	157,203	250.7	114,864
Sunderland	113,227	299.1	89,581
Wolverhampton	68,790	256.5	52,524
YUGOSLAVIA	2,303,501	22,498.0	1,684,438
Beograd	299,247	1,470.0	—
Ljubljana	131,699	305.0	—
Novi Sad	61,813	258.0	—
Rijeka	42,853	193.0	—
Sarajevo	92,053	448.0	—
Skoplje	58,286	506.0	—
Zagreb	176,133	855.0	—
WORLD ZONE 5			
ARGENTINA	3,041,475	28,336.0	2,139,358
Bahia Blanca	33,490	225.0	28,115
Buenos Aires(Greater)	1,462,291	9,851.0	1,243,636
Cordoba	79,915	999.0	68,315
Corrientes	13,389	183.0	10,252
La Plata	57,824	570.0	47,083
Mar Del Plata	66,953	414.0	56,475
Mendoza	66,229	380.0	48,177
Mercedes(Buenos Aires)	5,080	48.0	4,104
Parana	19,149	224.0	14,627
Posadas	8,109	142.0	6,050
Resistencia	12,471	222.0	9,487
Rosario	99,081	971.0	82,020
S.M. De Tucuman	43,721	393.0	32,258
Salta	21,478	266.0	15,698
San Juan	20,139	228.0	15,571
San Nicolas	8,301	98.0	7,414
Santa Fe	37,242	292.0	29,569
Santiago Del Estero	11,432	244.0	8,532
BELIZE	8,645	150.0	5,920
Belize	5,223	—	3,508
Belmopan	1,044	—	595
Benque Viejo	100	—	80
Corozal	739	—	579
Dangriga	271	—	201
Independence	50	—	38
Ladyville	197	—	132
Orange Walk	508	—	408
Punta Gorda	100	—	76
San Ignacio	250	—	177
San Pedro	163	—	126

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 5 (CONTINUED)			
BOLIVIA	144,300	5,755.0	—
Camiri	—	—	800
Cobija	—	—	300
Cochabamba	—	—	18,500
Guayaramerin	—	—	600
La Paz	—	—	61,000
Montero	—	—	1,000
Oruro	—	—	9,000
Otros	—	—	700
Potosi	—	—	5,300
Riberalta	—	—	600
Santa Cruz	—	—	33,000
Sucre	—	—	8,000
Tarija	—	—	4,000
Trinidad	—	—	800
Tupiza	—	—	400
Villazon	—	—	200
BRAZIL	8,536,000	119,070.8	5,377,680
Aracaju	35,343	293.3	22,466
Belem	75,844	934.3	50,249
Belo Horizonte	325,742	1,781.9	204,056
Boa Vista	5,314	67.0	3,676
Brasilia	184,894	1,177.4	110,041
Campo Grande	35,053	291.8	23,359
Cuiaba	21,460	213.2	14,585
Curitiba	277,170	1,026.0	143,197
Florianopolis	40,232	187.8	22,452
Fortaleza	102,084	1,308.9	70,405
Goiania	84,265	717.9	53,867
Joao Pessoa	33,534	330.2	22,443
Macapa	5,135	137.7	3,827
Maceio	35,650	400.0	21,366
Manaus	51,735	634.7	30,886
Natal	28,498	416.9	19,782
Porto Alegre	191,097	1,125.9	105,173
Porto Velho	7,710	134.6	5,992
Recife	113,651	1,204.7	77,153
Rio Branco	6,538	117.1	4,360
Rio De Janeiro	1,094,691	5,093.2	715,028
Salvador	169,368	1,506.6	105,388
Sao Luis	31,609	449.9	23,257
Sao Paulo	1,744,834	8,493.6	971,038
Teresina	28,498	378.0	18,622
Vitoria	72,174	207.6	44,363
CHILE	595,108	11,390.0	388,871
Antofagasta	9,322	166.0	5,899
Arica	7,773	120.0	5,119
Chillan	6,166	120.0	4,047
Concepcion	19,009	204.0	11,115
Coquimbo	2,121	70.0	1,464
Iquique	6,295	107.0	4,044
La Serena	5,102	84.0	3,393
Los Angeles	3,573	74.0	2,109
Osorno	4,888	93.0	3,212
Puerto Montt	3,127	87.0	2,427
Punta Arenas	9,197	80.0	6,005
Rancagua	8,960	135.0	6,489
Santiago	364,527	3,993.0	248,632
Talca	7,746	133.0	5,027
Talcahuano	3,647	207.0	2,028
Temuco	10,305	160.0	6,079
Valdivia	4,511	113.0	3,058
Valparaiso	21,590	267.0	13,221
Vina Del Mar	28,232	286.0	20,348

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 5 (CONTINUED)			
COLOMBIA	1,747,689	27,869.0	1,423,780
Armenia	—	179.0	8,500
B/Bermeja	—	126.0	2,900
Barranquilla	—	1,009.0	80,000
Bogota	—	4,385.0	642,000
Bucaramanga	—	501.0	30,800
Buga	—	91.0	7,800
Cali	—	1,452.0	10,900
Cartagena	—	423.0	14,100
Cartago	—	89.0	6,400
Cucuta	—	326.0	21,000
Girardot	—	88.0	5,000
Ibague	—	253.0	7,000
Manizales	—	267.0	22,500
Medellin	—	2,139.0	287,000
Monteria	—	130.0	4,800
Neiva	—	152.0	8,600
Palmira	—	191.0	10,550
Pasto	—	160.0	4,000
Pereira	—	278.0	24,250
Popayan	—	104.0	4,000
Santa Marta	—	141.0	5,000
Tulua	—	123.0	2,800
Tunja	—	68.0	3,000
Villavicencio	—	127.0	3,100
COSTA RICA	255,898	2,340.6	163,692
Alajuela	12,777	110.0	8,518
Cartago	10,293	100.6	6,862
Heredia	14,021	84.3	9,347
Liberia	2,258	18.7	1,505
Limon	3,525	49.1	2,350
Metropolitan Area	174,967	592.2	116,645
Puntarenas	3,551	41.5	2,367
CUBA	406,366	9,717.3	239,948
Camaguey	14,388	—	7,035
Ciudad Habana	227,168	—	133,026
Santa Clara	11,305	—	4,572
Santiago Cuba	15,127	—	6,943
ECUADOR	290,200	8,945.0	241,800
Ambato	7,800	108.0	6,500
Azogues	700	14.0	600
Babahoyo	1,000	41.0	800
Cuenca	13,100	151.0	10,900
Esmeraldas	3,000	98.0	2,500
Guayaquil	109,200	1,200.0	91,000
Ibarra	3,000	58.0	2,500
Latacunga	1,600	29.0	1,300
Loja	3,200	100.0	2,700
Machala	3,600	122.0	3,000
Manta	4,300	99.0	3,600
Milagro	1,800	86.0	1,500
Portoviejo	4,300	94.0	3,600
Quevedo	1,600	78.0	1,300
Quito	109,600	900.0	91,300
Riobamba	2,400	75.0	2,000
Salinas	2,200	21.0	1,800
Tulcan	1,400	33.0	1,200
EL SALVADOR	86,316	4,856.1	69,464
Ahuachapan	600	74.2	592
Chalchuapa	400	57.1	386
Cojutepeque	400	34.7	391
Gotera	200	12.9	192
Ilobasco	200	55.0	193

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 5 (CONTINUED)			
EL SALVADOR (CONTINUED)			
Jiquilisco	200	59.9	198
La Union	400	58.2	383
Opico	200	45.7	167
San Miguel	3,000	178.1	2,892
San Salvador	54,000	430.7	50,844
San Vicente	600	63.8	586
Santa Ana	4,000	211.8	3,857
Santa Rosa De Lima	200	30.9	193
Santa Tecla	5,000	69.0	4,037
Sensuntepeque	200	51.8	198
Sonsonate	2,000	72.9	1,876
Soyapango	5,000	67.3	4,824
Suchitoto	120	44.1	102
Usulutan	600	63.3	591
Zacatecoluca	600	86.2	596
FRENCH GUIANA	**19,627**	**73.0**	**13,019**
Cayenne	12,800	38.0	8,567
Kourou	2,990	7.0	1,506
GUADELOUPE	**74,072**	**328.4**	—
Basse Terre	7,590	13.6	5,027
Pointe A Pitre	25,713	25.3	17,427
GUATEMALA	**97,670**	**7,145.0**	**97,670**
Amatitlan	488	32.8	488
Antigua	661	120.0	661
Asuncion Mita	233	30.4	233
Barberena	252	22.6	252
Chichicastenango	112	55.7	112
Chimaltenango	440	27.0	440
Chiquimula	517	42.6	517
Ciudad Guatemala	83,405	749.7	83,405
Coatepeque	474	49.6	474
Cooan, Alta Ver.	592	42.4	592
El Progreso	223	11.7	223
Escuintla	715	73.7	715
Esquipulas	174	18.8	174
Flores, Peten	223	13.3	223
Huehuetenango	478	37.2	478
Jalapa	312	54.5	312
Jutiapa	442	60.1	442
Mazatenango	742	37.6	742
Mixco	623	199.6	623
Morales, Izabal	185	51.5	185
Panajachel	317	4.9	317
Puerto Barrios	699	46.8	699
Quezaltenango	1,719	72.7	1,719
Quiche	342	35.0	342
Retalhuleu	576	46.0	576
Salama, Baja Ver	135	23.2	135
San Jose Pinula	361	15.2	361
San Juan Sac.	142	49.5	142
San Lucas Sac.	205	6.0	205
San Marcos	511	20.0	511
Sta. Lucia Cotz.	365	45.0	365
Teculutan	37	7.4	37
Tiquisate	334	35.5	334
Totonicapan	250	62.0	250
Villa Nueva	510	70.2	510
Zacapa	539	33.4	539
GUYANA	**28,468**	**800.0**	**16,243**
Corriverton	178	12.0	94
Georgetown	21,513	178.0	12,027

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 5 (CONTINUED)			
GUYANA (CONTINUED)			
Linden	890	30.0	1,421
New Amsterdam	1,708	21.0	1,188
Rose Hall	142	6.0	196
HONDURAS	**33,667**	**3,955.0**	**33,169**
Choluteca	--	50.0	886
Comayagua	--	27.0	408
Danli	--	17.0	388
Juticalpa	--	13.0	200
La Ceiba	--	59.0	1,494
La Lima	--	23.0	482
Progreso	--	50.0	568
Puerto Cortes	--	39.0	826
San Pedro Sula	--	320.0	4,992
Santa Rosa De Copan	--	18.0	296
Siguatepeque	--	22.0	376
Tegucigalpa	--	502.0	21,858
Tela	--	26.0	285
Valle De Ang.	--	2.0	100
MARTINIQUE	**68,908**	**328.5**	**43,874**
Basse Pointe	769	4.2	1,181
Case Pilote	807	2.0	519
Diamant	907	2.4	645
Francois	1,711	14.4	1,223
Gd. Bourg	669	6.7	539
Gros Morne	1,119	9.3	954
Lamentin	5,069	26.4	2,881
Lorrain	1,097	8.0	851
Marin	875	6.0	665
Morne Rouge	894	4.8	762
Port De France	42,869	99.8	25,191
Riviere Pilote	607	11.2	465
Robert	1,224	15.3	1,065
Sainte Anne	592	3.4	397
St. Joseph	246	11.3	786
St. Pierre	1,599	5.4	1,241
Ste. Luce	454	4.5	371
Ste. Marie	1,003	18.6	750
Trinite	939	10.1	1,228
Trois Ilets	1,006	3.2	584
Vauclin	748	6.9	660
MEXICO	**5,411,108**	**73,167.0**	**2,870,644**
Acapulco	56,900	479.0	26,600
Aguascalientes	40,400	288.0	19,600
Celaya	23,600	109.0	13,200
Chuhuahua	71,200	556.0	37,200
Ciudad Juarez	56,700	752.0	33,200
Ciudad Lopez Mateos	15,300	114.0	8,500
Ciudad Obregon	31,400	206.0	16,300
Ciudad Victoria	14,800	152.0	8,900
Coatzacoalcos	18,100	134.0	8,700
Colima	16,700	111.0	8,500
Cordoba	17,100	152.0	9,400
Cuautitlan	48,500	85.0	25,400
Cuautla	13,700	150.0	8,400
Cuernavaca	62,600	273.0	34,600
Culiacan	48,200	686.0	22,600
Durango	39,000	263.0	18,600
Guadalajara	327,800	2,188.0	184,900
Guaymas	15,100	139.0	8,200
Hermosillo	52,000	312.0	25,400
Irapuato	21,800	174.0	12,100
Jalapa	43,800	261.0	21,700
La Paz	20,500	85.0	9,700

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 5 (CONTINUED)			
MEXICO (CONTINUED)			
Leon	56,200	641.0	33,200
Los Mochis	24,100	106.0	11,300
Matamoros	29,000	193.0	14,300
Mazatlan	38,300	218.0	17,200
Merida	59,400	322.0	35,300
Mexico, D.F.	2,222,700	13,994.0	1,152,000
Monterrey	303,000	1,623.0	168,300
Morelia	35,600	259.0	19,700
Nuevo Laredo	34,200	227.0	18,400
Oaxaca	27,000	136.0	12,400
Orizaba	23,600	125.0	12,800
Pachuca	20,900	112.0	10,300
Poza Rica	22,300	230.0	9,800
Puebla	129,900	731.0	65,900
Queretaro	29,500	177.0	15,600
Reynosa	26,800	234.0	14,300
Saltillo	38,500	292.0	18,000
San Luis Potosi	54,800	374.0	29,000
Tampico	52,800	287.0	27,900
Tepic	16,400	145.0	8,400
Toluca	49,000	515.0	24,300
Torreon	73,800	431.0	40,000
Tuxtla Gtz.	22,200	99.0	10,000
Uruapan	17,100	126.0	8,500
Veracruz	61,800	356.0	31,000
Villahermosa	24,900	175.0	11,400
Zacatecas	14,400	75.0	7,200
Zamora	11,400	122.0	6,800
NETHERLANDS ANTILLES	72,168	256.0	41,930
Kralendijk	--	7.0	750
Oranjestad	--	46.0	8,000
Oranjestad(North)	--	0.8	195
Philipsburg	--	13.0	1,500
The Bottom	--	0.8	195
Willemstad	--	130.0	21,771
NICARAGUA	51,237	2,900.0	--
Bluefields	--	37.3	474
Boaco	--	90.3	334
Chichigalpa	--	32.8	159
Chinandega	--	236.8	996
Corinto	--	20.0	318
Dario	--	29.4	35
Diriamba	--	40.4	363
El Bluff	--	--	38
El Rama	--	44.4	54
Esteli	--	113.7	578
Granada	--	115.7	1,656
Jinotega	--	131.6	470
Jinotepe	--	31.2	702
Juigalpa	--	29.4	387
Leon	--	253.8	1,858
Managua	--	859.2	21,554
Masatepe	--	17.4	173
Masaya	--	152.0	1,177
Matagalpa	--	223.7	749
Nandaime	--	21.8	108
Ocotal	--	15.3	276
Penas Blancas	--	--	39
Poneloya	--	--	11
Rivas	--	112.1	468
San Juan Del Sur	--	9.9	112
San Marcos	--	13.9	146
Sebaco	--	12.5	50
Somotillo	--	17.0	31
Somoto	--	20.5	153

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 5 (CONTINUED)			
PANAMA	**212,952**	**1,984.0**	**161,076**
Aguadulce	1,683	11.2	1,122
Chitre	3,943	18.5	2,969
Chorrera	2,414	41.7	2,229
Colon	14,734	57.5	12,501
David	8,971	52.0	5,743
Panama	153,469	581.5	113,574
Penonome	939	7.9	689
Santiago	2,320	25.4	1,980
PERU	**129,742**	**17,762.0**	**[illegible],603**
Arequipa	23,072	447.0	16,849
Chiclayo	9,868	280.0	7,939
Chimbote	5,873	216.0	4,628
Cuzco	5,89[illegible]	182.0	3,553
Huacho	2,616	76.0	2,292
Huancayo	3,979	165.0	2,834
Ica	2,722	111.0	1,957
Iquitos	4,999	174.0	4,125
Lima	371,673	4,410.0	230,400
Piura	8,682	186.0	7,270
Tacna	3,120	93.0	2,000
Trujillo	10,664	355.0	9,620
Tumbes	1,832	48.0	1,698
URUGUAY	**294,350**	**2,926.0**	**226,449**
Las Piedras	1,500	44.0	1,413
Maldonado	5,000	22.0	3,891
Melo	1,400	36.0	1,352
Mercedes	2,200	35.0	2,084
Minas	2,100	35.0	1,954
Montevideo	194,960	1,286.0	166,576
Paysandu	3,700	62.0	3,430
Punta Del Este	11,000	7.0	7,865
Salto	4,000	72.0	3,672
San Jose	1,600	28.0	1,574
VENEZUELA	**1,377,830**	**14,602.0**	**1,377,830**
Acarigua	---	89.0	6,898
Barquisimeto	---	462.0	30,604
Cabimas	---	142.5	7,510
Caracas	---	2,074.2	511,336
Ciud. Guayana	---	320.4	15,675
Ciudad Bolivar	---	184.2	8,267
Coro	---	101.5	2,877
Cumana	---	181.7	7,498
Maracay	---	301.4	6,821
Merida	---	153.7	12,657
Porlamar	---	59.6	4,018
Puerto Cabello	---	70.6	4,725
Puerto La Cruz	---	48.6	13,544
San Cristobal	---	212.6	23,571
San Felipe	---	68.7	4,3[illegible]2
San Fernando	---	68.8	3,253
Valencia	---	578.3	53,774
Valera	---	107.4	7,641
WORLD ZONE 6			
AMERICAN SAMOA	**5,992**	**34.1**	**4,060**
Faga'itua	334	---	265
Fagatogo	3,634	---	2,139
Leone	736	---	610
Manu'a (Luma)	173	---	150
Tafuna	1,116	---	897

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 6 (CONTINUED)			
BRUNEI	21,928	191.8	14,006
Bandar Seri Begawan	13,775	105.0	8,014
Kuala Belait	4,822	19.3	3,040
Seria	2,191	23.5	1,744
Tutong	571	9.7	443
COCOS ISLAND	142	0.6	0
Cocos(Keeling)Islands	142	0.6	—
COOK ISLANDS	1,870	17.0	1,185
Aitutaki	151	2.4	151
Rarotonga	1,199	9.0	1,034
FIJI	46,252	660.0	21,647
Lautoka	5,902	30.0	3,462
Suva	14,455	69.0	6,594
FRENCH POLYNESIA	24,818	140.0	12,856
Atuona(Hiva-Oa)	69	1.5	67
Fare(Huahine)	53	3.1	51
Moorea	493	6.5	421
Papara	489	4.3	428
Papeete Area	22,480	82.0	11,752
Taiohae(Nuku Hiva)	90	1.6	87
Taravao	657	3.5	571
Tubuai(Mataura)	47	1.7	47
Uturoa(Raiatea)	361	3.3	305
Vaitape(Bora Bora)	69	2.8	64
INDONESIA	600,643	152,441.0	429,557
Ambon	—	232.0	1,521
Banda Aceh	—	74.0	1,739
Bandung	—	1,495.0	17,534
Banjarmasin	—	749.0	3,108
Bengkulu	—	70.0	928
Denpasar	—	517.0	4,574
Dili	—	69.0	340
Jakarta	—	6,778.0	147,432
Jambi	—	240.0	2,672
Jayapura	—	158.0	1,061
Jogjakarta	—	2,781.0	3,626
Kendari	—	323.0	839
Kupang	—	414.0	1,251
Manado	—	223.0	3,319
Medan	—	1,501.0	19,842
Padang	—	531.0	4,898
Pakanbaru	—	191.0	2,923
Palangkaraya	—	66.0	830
Palembang	—	814.0	4,856
Pontianak	—	945.0	2,061
Samarinda	—	284.0	2,385
Semarang	—	1,080.0	14,456
Surabaya	—	2,088.0	33,889
Tanjung Karang	—	296.0	3,938
Ujungpandang	—	746.0	9,329
KIRIBATI (GILBERT ISLAND)	821	60.0	468
Kiribati	821	60.0	468
MALAYSIA	825,289	13,000.0	561,130
Ipoh	35,144	—	25,076
Kota Kinabalu	19,020	113.0	8,818
Kuala Lumpur	173,041	—	101,788
Kuching	30,990	76.0	21,182

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(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 6 (CONTINUED)			
MALAYSIA (CONTINUED)			
Miri	7,652	55.0	5,105
Penang	36,327	—	24,055
Petaling Jaya	79,522	—	57,724
Sandakan	6,900	119.0	4,782
Sibu	13,361	89.0	9,782
Tawau	6,361	120.0	4,447
NEW ZEALAND	**1,875,538**	**3,190.1**	**1,173,276**
Auckland	460,314	778.2	268,690
Christchurch	186,647	289.4	112,830
Dunedin	60,950	106.3	36,953
Gisborne	18,504	32.1	11,333
Hamilton	57,097	96.6	36,195
Invercargill	33,399	53.9	21,125
Napier/Hastings	60,078	104.5	37,592
Nelson	21,856	43.4	13,356
New Plymouth	28,427	44.3	17,818
Palmerston North	44,406	67.4	24,627
Rotorua	25,561	48.9	15,743
Tauranga	30,850	54.3	20,843
Timaru	19,424	29.1	12,311
Wanganui	23,774	39.6	15,050
Wellington	246,617	320.0	131,897
Whangarei	23,501	40.6	15,203
NIUE	**205**	**3.0**	—
Alofi	—	1.0	—
NORFOLK ISLAND	**987**	**1.8**	**658**
Norfolk Island	987	1.8	658
NORTHERN MARIANAS	**2,325**	**17.2**	**1,440**
Airport	70	—	48
Capitol Hill	517	2.9	420
Rota	141	1.3	119
Susupe	1,526	12.1	989
Tinian	71	0.9	56
PAPUA NEW GUINEA	**50,050**	**3,069.0**	**25,554**
Arawa	2,163	13.5	1,701
Goroka	2,301	19.5	1,100
Lae	7,066	66.0	3,435
Madang	2,334	22.0	1,153
Mt. Hagen	1,633	14.5	894
Port Moresby	21,635	131.0	10,122
Rabaul	3,633	16.0	1,772
Wewak	1,223	20.5	597
PHILIPPINES	**624,101**	**49,980.4**	**367,404**
Bacolod	15,524	823.0	11,179
Bataan	1,147	103.0	692
Batangas	2,779	385.0	2,373
Bislig	281	54.0	250
Bulacan	1,452	297.0	1,285
Cabanatuan	1,435	133.0	1,263
Cagayan	1,060	118.0	885
Cavite	2,519	301.0	2,408
Cebu	30,623	673.0	20,316
Dagupan	3,549	101.0	2,427
Davao	12,162	621.0	8,180
Iloilo	11,052	329.0	8,004
Isabela	407	187.0	332
La Trinidad	277	29.0	232

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 6 (CONTINUED)			
PHILIPPINES (CONTINUED)			
Laguna	4,878	378.0	
Laoag	479	7[illegible].0	[illegible]7
Lucena	2,696	105.0	2,041
Metro Manila	513,552	6,869.0	289,599
Oroquieta/Ozamis	825	138.0	711
San Fernando, La Union	2,002	193.0	1,182
San Fernando, Pampanga	3,464	329.0	2,561
San Pablo	3,165	138.0	2,473
Tarlac	3,487	498.0	2,590
Zamboanga	5,296	322.0	2,874
PITCAIRN ISLANDS	24	0.1	24
Adamstown	24	0.1	—
SINGAPORE	771,400	2,443.3	546,.84
Singapore	774,572	2,443.3	575,479
SOLOMON ISLANDS	2,708	247.4	1,291
Avki	131	—	90
Gizo	136	—	100
Honiara	2,441	—	1,230
THAILAND	529,106	47,875.0	369,414
Bangkok Metropolis	389,852	6,625.0	268,373
Chiang Mai	9,065	181.0	4,342
Chon Buri	3,637	50.0	3,570
Hat Yai	7,843	102.0	3,137
Khon Kaen	2,888	100.0	1,788
Nakhon Pathom	2,717	46.0	2,369
Nakhon Ratchasima	4,657	89.0	3,648
Nakhon Sawan	3,763	91.0	2,869
Ubon Ratchathani	3,070	49.0	1,941
Udon Thani	3,635	82.0	2,895
TUVALU	92	9.0	92
Funafuti	92	2.0	92
WALLIS & FUTUNA	151	12.0	144
Futuna Island	—	4.1	21
Wallis Island	—	7.9	130
WESTERN SAMOA	5,857	158.0	3,472
Apia	5,737	35.0	3,472
WORLD ZONE 8			
BANGLADESH	122,190	90,000.0	113,653
Chittagong	17,500	1,000.0	16,600
Dacca	66,000	2,600.0	61,000
Khulna	3,790	500.0	3,500
Sylhet	2,500	200.0	2,400
CHINA (TAIWAN)	3,820,207	18,194.0	2,629,530
Kaohsiung	413,144	1,608.7	285,081
Keelung	81,812	347.8	62,695
Taichung	262,248	865.0	162,516
Tainan	181,081	771.2	120,424
Taipei	1,432,827	4,199.8	945,608

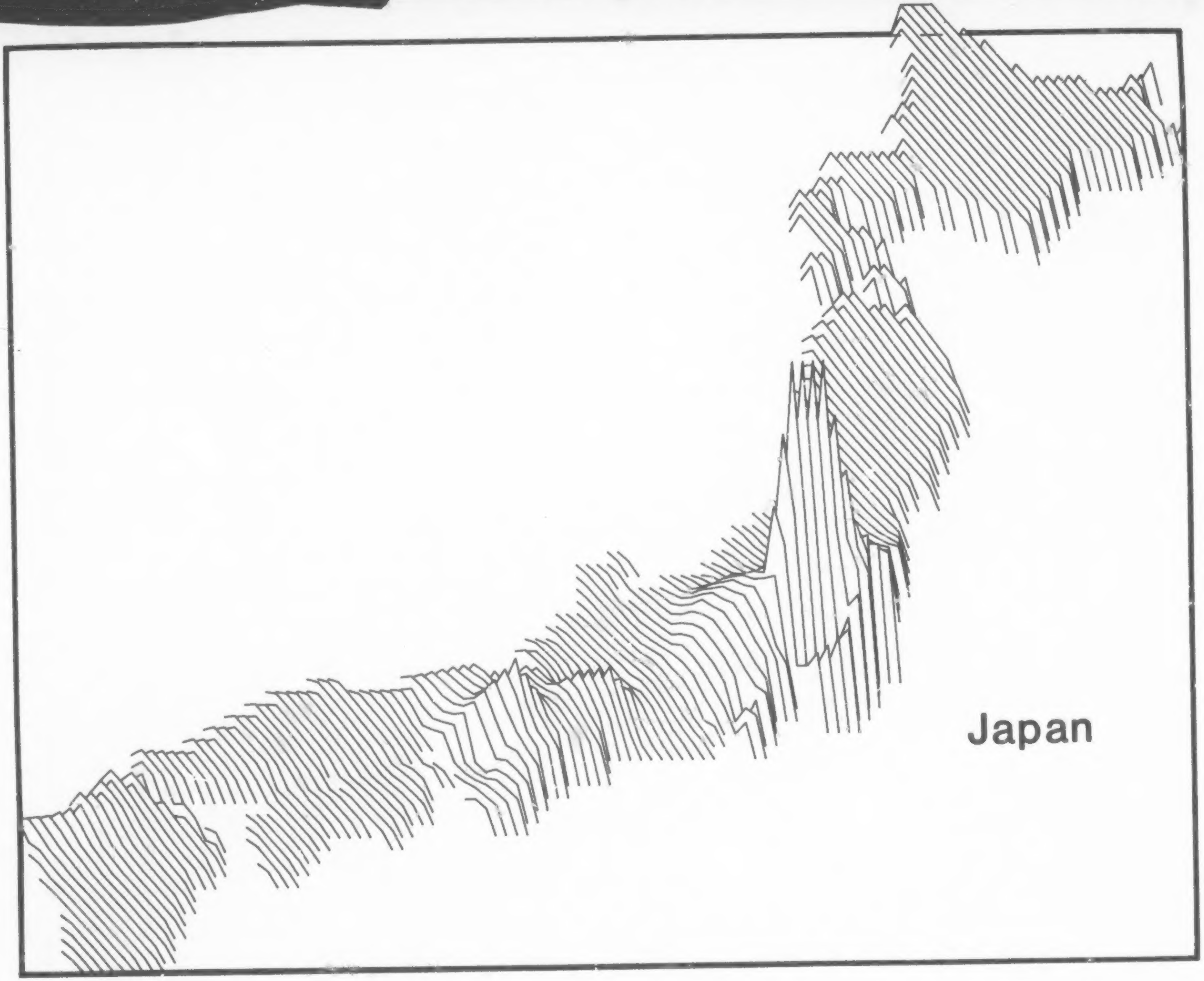
The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 8 (CONTINUED)			
HONG KONG	**1,822,846**	**5,210.0**	**1,383,667**
Hong Kong Island	625,149	1,249.0	401,446
Kowloon	827,776	2,584.0	656,310
New Terr./Outlying Islands	369,921	1,374.0	325,911
JAPAN	**60,349,857**	**118,222.7**	**42,539,015**
Ageo	74,865	169.0	—
Akashi	121,168	257.6	—
Akita	165,453	286.8	—
Amagasaki	282,614	510.4	—
Aomori	154,652	288.4	—
Asahikawa	188,130	355.9	—
Ashikaga	80,414	167.1	—
Atsugi	95,594	153.7	—
Beppu	88,478	133.6	—
Chiba	359,705	749.1	—
Chigasaki	81,049	176.0	—
Chofu	73,950	177.9	—
Fuchu	81,931	187.8	—
Fuji	99,183	210.1	—
Fujisawa	152,615	308.9	—
Fukui	145,633	240.5	—
Fukuoka	746,725	1,065.1	—
Fukushima	141,610	262.3	—
Fukuyama	161,800	351.2	—
Funabashi	177,157	482.3	—
Gifu	242,306	407.7	—
Hachinohe	126,855	239.4	—
Hachioji	173,873	388.4	—
Hakodate	183,291	318.8	—
Hamamatsu	253,610	495.3	—
Higashiosaka	275,341	499.0	—
Himeji	242,181	446.2	—
Hirakata	173,191	362.1	—
Hiratsuka	107,340	219.1	—
Hirosaki	88,605	176.0	—
Hiroshima	540,014	891.3	—
Hitachi	94,365	205.1	—
Ibaraki	114,930	234.1	—
Ichihara	99,707	227.8	—
Ichikawa	195,681	368.7	—
Ichinomiya	110,026	252.6	—
Imabari	81,307	125.0	—
Ishinomaki	81,360	122.2	—
Itami	83,719	174.6	—
Iwaki	154,265	350.4	—
Kadoma	78,903	136.0	—
Kagoshima	284,832	507.3	—
Kakogawa	98,670	216.7	—
Kamakura	93,716	175.4	—
Kanazawa	270,996	409.3	—
Kashiwa	121,730	248.7	—
Kasugai	103,592	243.9	—
Kawagoe	117,003	261.0	—
Kawaguchi	166,519	387.8	—
Kawasaki	531,889	1,027.1	—
Kiryu	71,449	133.4	—
Kisarazu	73,054	115.5	—
Kishiwada	82,625	182.0	—
Kitakyushu	544,800	1,055.1	—
Kobe	798,958	1,361.2	—
Kochi	188,430	302.0	—
Kofu	134,538	199.3	—
Koriyama	139,612	287.0	—
Koshigaya	99,706	229.7	—
Kumamoto	307,907	514.5	—
Kurashiki	200,921	408.7	—
Kure	119,483	233.7	—
Kurume	110,902	216.1	—

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 8 (CONTINUED)			
JAPAN (CONTINUED)			
Kushiro	127,130	216.4	—
Kyoto	858,166	1,458.0	—
Machida	124,200	297.8	—
Maebashi	149,226	268.4	—
Matsudo	183,987	405.9	—
Matsue	71,890	133.9	—
Matsumoto	113,689	189.7	—
Matsuyama	234,137	407.5	—
Mishima	77,680	94.9	—
Mitaka	79,650	159.0	—
Mito	134,468	218.5	—
Miyazaki	150,781	263.1	—
Moriguchi	92,329	160.3	—
Morioka	170,764	229.5	—
Muroran	78,274	153.5	—
Musashino	81,219	132.0	—
Nagano	171,492	325.1	—
Nagaoka	91,944	178.7	—
Nagasaki	241,813	446.1	—
Nagoya	1,317,403	2,053.1	—
Naha	152,183	300.6	—
Nara	148,215	304.7	—
Narashino	76,921	128.9	—
Neyagawa	132,585	252.3	—
Niigata	263,223	453.5	—
Nishinomiya	215,300	397.2	—
Numazu	112,887	207.4	—
Obihiro	92,769	155.9	—
Odawara	90,814	178.2	—
Ogaki	73,976	142.9	—
Oita	190,825	362.0	—
Okayama	316,349	546.1	—
Okazaki	123,505	266.6	—
Omiya	174,223	357.1	—
Omuta	72,506	163.8	—
Osaka	2,055,351	2,541.6	—
Otaru	88,883	181.2	—
Otsu	110,735	218.2	—
Saga	98,086	166.5	—
Sagamihara	185,649	448.5	—
Sakai	386,514	805.5	—
Sapporo	832,213	1,418.7	—
Sasebo	121,504	253.5	—
Sendai	464,569	649.5	—
Shimizu	118,642	242.1	—
Shimonoseki	133,232	262.0	—
Shizuoka	251,007	459.3	—
Soka	96,046	186.1	—
Suita	168,320	328.1	—
Tachikawa	74,457	142.2	—
Takamatsu	227,517	317.3	—
Takaoka	93,989	176.7	—
Takarazuka	92,511	185.8	—
Takasaki	135,028	224.9	—
Takatsuki	157,966	338.6	—
Tokorozawa	108,015	244.6	—
Tokushima	148,901	249.2	—
Tokyo	6,662,406	8,138.6	—
Tomakomai	80,387	153.9	—
Tottori	71,165	130.8	—
Toyama	176,669	305.8	—
Toyohashi	145,150	308.4	—
Toyonaka	208,885	393.2	—
Toyota	123,094	283.2	—
Tsu	85,189	144.9	—
Tsuchiura	91,116	113.9	—
Ube	83,269	168.2	—
Uji	75,122	153.4	—
Urawa	183,091	361.7	—



URBAN TELEPHONE SURFACE MAP OF JAPAN

The above figure shows the distribution of urban telephones. Data used included only cities with over 400,000 reported telephones. Peaks occur at cities with a relatively high number of reported telephones, such as Tokyo and Osaka. Areas which are relatively high include cities with a high number of reported telephones. Note that this figure does not represent rural telephone density, or per-capita telephones.

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Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE- PHONES	POPULA- TION (000)	TOTAL MAIN TELS.
WORLD ZONE 8 (CONTINUED)			
JAPAN (CONTINUED)			
Utsunomiya	208,350	384.2	--
Wakayama	218,740	403.2	--
Yamagata	137,274	235.6	--
Yamaguchi	56,590	113.8	--
Yamato	71,295	168.4	--
Yao	132,712	264.6	--
Yokkaichi	138,214	256.9	--
Yokohama	1,406,998	2,823.2	--
Yokosuka	188,951	425.8	--
KOREA, REP. OF	**5,158,357**	**37,436.0**	**4,079,590**
Busan	431,777	3,159.0	431,777
Daegu	244,994	1,604.0	244,994
Daejeon	109,946	651.0	109,946
Gwoangju	95,574	727.0	95,574
Inchon	160,851	1,083.0	160,851
Seoul	1,479,628	8,364.0	1,479,628
MACAO	**23,220**	**346.5**	**15,955**
Coloane	275	5.0	213
Macau	22,445	388.5	15,368
Taipa	500	6.5	374
WORLD ZONE 9			
BAHRAIN	**85,800**	**351.4**	**49,400**
Budeya	4,616	4.0	2,980
Hidd	1,817	7.0	1,549
Isa Town	5,701	40.0	5,701
Manama	31,712	156.0	28,112
Muharaq	7,311	62.0	6,481
Riffa	4,349	29.0	3,849
Sadad	785	2.0	761
Sitra	1,280	3.0	883
INDIA	**2,981,609**	**658,141.0**	**2,243,936**
Ahmedabad	76,118	2,515.0	60,696
Amritsar	16,415	589.0	14,114
Bangalore	78,589	2,914.0	55,700
Baroda	20,500	744.0	16,036
Bombay	440,665	8,227.0	299,110
Calcutta	251,650	9,166.0	179,392
Chandigarh	16,988	421.0	12,414
Coimbatore	17,374	917.0	13,378
Delhi	293,057	5,714.0	204,297
Ernakulam	20,144	636.0	13,950
Hyderabad	63,600	2,528.0	43,778
Indore	17,604	827.0	13,863
Jaipur	26,828	1,005.0	18,129
Jullundur	13,041	405.0	10,300
Kanpur	27,381	1,688.0	23,303
Lucknow	27,708	1,007.0	17,526
Ludhiana	19,170	606.0	17,204
Madras	122,882	4,277.0	82,691
Madurai	13,427	904.0	10,646
Nagpur	18,766	1,298.0	13,992
Patna	17,851	916.0	13,458
Pune	51,818	1,685.0	34,043
Rajkot	12,805	444.0	11,255
Surat	23,087	913.0	20,373
Trivandrum	18,066	520.0	12,118

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 9 (CONTINUED)			
IRAN	1,041,939	36,000.0	—
Bakhtaran	14,770	—	—
Bushehr	5,276	—	—
Chaharmahal	4,706	—	—
East Azarbaijon	16,766	—	—
Fars	39,738	—	—
Gilan	35,040	—	—
Hamadan	17,935	—	—
Hormozgan	4,740	—	—
Ilam	1,000	—	—
Isfahan	73,207	—	—
Kerman	15,352	—	—
Khorassan	74,070	—	—
Khuzestan	35,002	—	—
Kohkiluyeh	1,989	—	—
Kurdistan	9,525	—	—
Luristan	14,871	—	—
Markazi	18,978	—	—
Mazandaran	50,516	—	—
Semnan	12,371	—	—
Sistan/Baluch.	10,358	—	—
Tehran	423,861	—	—
Tehranbeyond	12,802	—	—
West Azarbaijon	60,954	—	—
Yazd	16,657	—	—
Zanjan	16,512	—	—
ISRAEL	1,302,000	4,060.0	922,465
Beersheva	36,800	128.9	23,291
Haifa	173,900	386.6	130,027
Jerusalem	150,800	432.0	104,512
Tel Aviv	499,948	973.5	348,000
KUWAIT	231,643	1,449.0	164,727
Kuwait	231,643	1,449.0	171,427
MALDIVES	1,540	143.0	1,540
Male	—	143.0	—
PAKISTAN	393,010	86,291.0	285,790
Abbottabad	950	50.0	—
D.G.Khan	572	90.0	—
Faisalabad	10,889	1,100.0	—
Gujranwala	5,717	480.0	—
Gujrat	1,337	130.0	—
Hyderabad	6,473	840.0	—
Islamabad	11,487	330.0	—
Jhelum	968	90.0	—
Karachi	99,710	4,810.0	—
Kasur	687	130.0	—
Lahore	58,731	2,900.0	—
Merdan	1,335	140.0	—
Mianwali	375	60.0	—
Multan	7,119	720.0	—
Peshawar	6,922	350.0	—
Quetta	5,282	200.0	—
Rawalpindi	15,342	830.0	—
Sahiwal	1,814	140.0	—
Sargodha	2,875	260.0	—
Sialkot	4,728	270.0	—
Sukkur	2,983	210.0	—
QATAR	57,600	245.0	—
Doha	48,300	—	27,000
Khalifa Town	7,300	—	6,100

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 9 (CONTINUED)			
QATAR (CONTINUED)			
Khor	740	—	650
Madinat Al Shamal	340	—	317
Umm Said	2,130	—	822
Wakrah	1,260	—	1,140
SAUDI ARABIA	**786,576**	**7,012.6**	**607,256**
Abha	10,241	47.0	7,878
Al Kharj	6,375	56.0	5,100
Al Khobar	21,722	158.0	16,091
Arar	3,889	37.0	3,111
Biljurshi	2,446	16.0	1,957
Buraydah	13,517	84.0	10,398
Dammam	34,457	273.0	25,524
Hail	10,937	82.0	8,750
Hofuf	18,557	179.0	14,275
Jeddah	129,596	909.0	95,997
Khamis Mushait	8,719	63.0	6,707
Makkah	55,573	680.0	42,749
Medina	37,030	443.0	28,485
Riyadh	191,243	1,230.0	141,662
Sakakah	4,513	47.0	3,611
Tabuk	16,342	128.0	12,571
Taif	40,004	326.0	29,633
Yanbu	4,782	49.0	3,826
SRI LANKA	**109,900**	**15,107.0**	**83,094**
Amparai	300	388.8	—
Anuradhapura	1,446	587.8	—
Avissawella	788	260.7	—
Badulla	742	642.9	—
Bandarawela	544	124.6	—
Batticaloa	1,200	330.9	—
Chilaw	1,420	87.2	—
Colombo	54,620	1,698.3	—
Galle	2,004	814.6	—
Gampaha	941	1,389.5	—
Hambantota	357	424.1	—
Hatton	1,140	35.3	—
Jaffna	2,832	831.1	—
Kalmunai	925	52.2	—
Kalutara	1,495	827.2	—
Kandy	5,297	1,126.3	—
Kegalle	199	682.4	—
Kurunegale	2,195	1,212.8	—
Matale	926	357.4	—
Matara	1,695	644.2	—
Nawalapitiya	885	522.2	—
Negambo	3,875	210.7	—
Nuwara-Eliya	1,166	195.3	—
Panadura	1,005	228.1	—
Pollannaruwa	600	262.8	—
Ratnapura	844	796.5	—
Trincomalee	739	256.8	—
Vavuniya	334	95.9	—
SYRIA	**471,127**	**9,657.0**	**336,924**
Aleppo	72,981	977.0	50,814
Damascus	154,615	1,251.0	106,868
Dar'a	7,336	50.0	5,812
Deir Ezzour	6,295	92.0	4,925
Hama	24,089	177.0	18,635
Hasakeh	8,787	73.0	6,562
Homs	27,713	355.0	19,795
Idleb	6,393	51.0	4,924
Lattakia	20,763	197.0	15,545
Rakka	7,403	87.0	5,683
Sweida	7,721	43.0	5,801

The World's Telephones as of January 1, 1982.
(These figures reflect only reporting countries.)

Table 15: (continued)
Total and Main Telephones in the Worlds Principal Cities

COUNTRY & CITY	TOTAL TELE-PHONES	POPULA-TION (000)	TOTAL MAIN TELS.
WORLD ZONE 9 (CONTINUED)			
SYRIA (CONTINUED)			
Tartous	11,712	53.0	9,080
TURKEY	**2,104,113**	**45,217.6**	**1,301,558**
Adana	36,174	574.0	14,849
Ankara	385,819	1,877.0	151,043
Antalya	13,202	173.0	6,175
Bursa	32,667	445.0	19,330
Denizli	9,159	135.0	5,969
Erzurum	15,936	190.0	9,816
Eskisehir	15,756	309.0	10,200
Gaziantep	19,161	374.0	15,312
Istanbul	656,908	2,772.0	383,983
Izmir	115,822	757.0	74,165
Izmit	23,360	190.0	11,855
Kayseri	15,443	281.0	12,078
Konya	24,245	329.0	17,153
Malatya	8,717	179.0	5,961
Mersin	10,345	216.0	7,959
Samsun	14,762	199.0	10,115
UNITED ARAB EMIRATES	**240,167**	**1,130.9**	**129,686**
Abu Dhabi	71,344	279.5	41,612
Ajman	6,185	34.4	2,990
Al Ain	12,409	103.7	7,782
Dubai	82,158	279.0	44,349
Fujeirah	2,253	13.0	1,374
Ras Al Khaimah	8,432	42.2	5,284
Sharjah	31,024	127.6	15,091
Umm Al Quwain	1,628	9.7	978

NON-REPORTING COUNTRIES

Country	Last Reported Date	Zone
Afghanistan	Jan. 79	9
Albania	Jan. 59	3
Angola	Jan. 79	2
Anguilla	Jan. 80	1
Antigua	Jan. 80	1
Australia	Jan. 81	6
Banaba Ocean Island	Jan. 81	6
Benin	No Reported Data	2
Bhutan	Jan. 78	9
Botswana	Jan. 76	2
Bulgaria	Jan. 81	3
Burma	Jan. 78	9
Cameroon	Jan. 78	2
Cape Verde	Jan. 81	2
Central African Rep.	Jan. 72	2
Chad	Jan. 79	2
China (Mainland)	Jan. 48	8
Comoros	Jan. 77	2
Djibouti	Jan. 80	2
Dominica	Jan. 80	1
Equatorial Guinea	Jan. 69	2
Falkland Islands	Jan. 79	5
Gambia	Jan. 80	2
Grenada	Jan. 81	1
Guinea	Jan. 72	2

NON-REPORTING COUNTRIES (Cont.'d)

Country	Last Reported Date	Zone
Haiti	Jan. 80	5
Iraq	Jan. 78	9
Ivory Coast	Jan. 80	2
Jordan	Jan. 78	9
Kampuchea	No Reported Data	8
Kiritimati	Jan. 81	6
Korea, Dem. Peo. Rep.	No Reported Data	8
Kwajalein	Jan. 81	6
Laos	Jan. 74	8
Lebanon	Jan. 79	9
Lesotho	Jan. 75	2
Liberia	Jan. 80	2
Libya	Jan. 72	2
Madagascar	Jan. 78	2
Malawi	Jan. 81	2
Mauritania	Jan. 66	2
Mauritius	Jan. 81	2
Midway Islands	Jan. 78	6
Mongolia	Jan. 79	9
Nauru	Jan. 80	6
Nepal	Jan. 79	9
New Caledonia	Jan. 81	6
Niger	Jan. 79	2
Oman	Jan. 79	9
Palau (Micronesia)	Jan. 81	6

NON-REPORTING COUNTRIES (Cont.'d)

Country	Last Reported Date	Zone
Paraguay	Jan. 81	5
Romania	Jan. 75	3
Rwanda	Jan. 79	2
St. Kitts-Nevis	Jan. 79	1
Sao Tome & Principe	Jan. 80	2
Senegal	Jan. 79	2
Seychelles	Jan. 81	2
Sierre Leone	Jan. 79	2
Somalia	Jan. 71	2
Soviet Union	Jan. 81	7
Togo	Jan. 81	2
Transkei	Jan. 80	2
Trinidad & Tobago	Jan. 79	1
Tunisia	Jan. 81	2
Turks & Caicos	Jan. 81	1
Uganda	Jan. 80	2
Upper Volta	Jan. 79	2
Vanuatu (New Hebrides)	Jan. 81	6
Venda	No Reported Data	2
Vietnam	Jan. 74	8
Virgin Islands, British	Jan. 80	1
Wake Island	Jan. 79	6
Yemen (Aden)	Jan. 73	9
Yemen (Sanaa)	Jan. 72	9
Zaire	Jan. 80	2
Zimbabwe (Rhodesia)	Jan. 81	2

COUNTRY NOTES

Zone 1 - North America

BAHAMAS

The long distance and international metered pulse data measure DDD calls. All other international telephone conversations are reported as OVC OGC calls. Local telephone traffic is measured in terms of "calls".

Population information is from the 1980 Census.

The Bahamas reported no city data for New Providence. Population data were supplied for Abaco, Andros, and Bimini-Cat Cay only.

BARBADOS

No data were reported measuring long distance telephone traffic.

BERMUDA

The following data are estimates: Number of telephones with automatic service (EMSS and ESS); population of Hamilton; number of residence extension telephones; and number of business extension telephones.

Coin box telephones and public telephone stations are capable of originating international calls by use of collect and credit card services only. Coin box telephones and public telephone stations are reported together in a combined total figure.

No data were reported measuring long distance telephone traffic.

CANADA

Data for Canada are based on statistics supplied by 10 major telephone companies and are therefore incomplete and inconsistent. There are over 600 Canadian telephone companies. The 10 reporting companies, however, account for approximately 90% of the telephones in service.

Canada did not supply the percentage of ISD calls.

Canada did not report total telephones or population for Moncton or Fredericton. Population data for Winnipeg, Vancouver, and Victoria are missing. Ottawa area includes Hull, Que.

CAYMAN ISLANDS

Cayman Islands are unable to supply information on the total number of main telephones, extensions, PBX systems, residence telephones, business telephones, or any subdivisions of these headings, as they do not maintain listings of these categories. They are hoping in the near future to introduce a system whereby they can derive such listings, and they may be in a position to supply information for the next edition.

International outgoing calls are recorded as paid minutes. Data for long distance calls are not available.

All population data are from the 1979 census.

Cayman Islands are unable to give a breakdown of total telephones by city.

Cayman Islands did not report the percentage of ISD calls.

DOMINICAN REPUBLIC

The Dominican Republic reported no information pertaining to coin box telephones.

JAMAICA

Long distance and international calls are reported in terms of "operator handled" calls. Local calls are included in the long distance figure.

Jamaica did not report the percentage of ISD calls.

MONTSERRAT

Montserrat provided information on international service (percentage ISD calls and most frequently called countries), population, residence and business telephones, private branch exchange telephones, and subscriber lines only.

PUERTO RICO

All telephone conversations are reported in terms of calls. The total number of local calls includes all domestic toll calls made within the island of Puerto Rico. Since Puerto Rico is fully integrated into the U.S. domestic rate structure, its toll traffic with the rest of the nation is not considered international; it is reported instead as long distance data.

Puerto Rico did not report the number of main telephones in each of its principal cities.

Puerto Rico reported no information pertaining to public telephone stations.

ST. LUCIA

St. Lucia was unable to provide, for this edition, any data pertaining to international service or the number of calls completed during the year.

All population data were reported by St. Lucia for the January 1, 1980, edition of The World's Telephones.

St. Lucia reported no information pertaining to coin box telephones and public telephone stations.

ST. PIERRE AND MIQUELON

St. Pierre and Miquelon reported one total figure for the number of metered pulses recorded during the year. This figure is not broken down in terms of local, long distance, and international calls. St. Pierre and Miquelon did not provide data for the following categories: extensions; and PBX systems; residence telephones; business telephones; coin box telephones; public telephone stations; and most frequently called countries.

St. Pierre and Miquelon also did not report the percentage of ISD calls.

ST. VINCENT AND THE GRENADINES

Local and long distance calls are reported together in terms of metered pulses. International outgoing calls are reported in terms of minutes.

St. Vincent did not subdivide total telephones or extension telephones into business and residence telephones.

St. Vincent reported no information pertaining to public telephone stations.

UNITED STATES

The data provided for the number of calls completed during the year (local, long distance, and international) are reported in terms of the daily average of messages.

The United States is unable to report a breakdown between public telephone stations and coin box telephones because the descriptions used throughout the U.S. for each are not definitive.

The United States shows a 10 million decrease in the total number of telephones since last year because they are no longer making an estimation of customer-provided equipment.

UNITED STATES (Cont.'d)

City Listings

Denver Area, Co, includes Arvada, Aurora, Boulder, Lakewood and Westminster.

East Bay Area, CA, includes Berkley and Oakland.

Minneapolis-St. Paul Area, MN, includes Bloomington.

Norfolk Area, VA, includes Chesapeake, Portsmouth and Virginia Beach.

Cleveland Area, OH, includes Cleveland Heights, Euclid and Lakewood.

Passaic Area, NJ, includes Clifton.

Newport Beach Area, CA, includes Costa Mesa and Irvine.

Kentucky-Metropolitan Area, KY, includes Covington.

Providence Area, RI, includes Cranston

San Francisco Area, CA, includes Daly City.

Detroit Area, MI, includes Dearborn, Dearborn Heights and Taylor.

Hartford Area, CT., includes East Hartford and West Hartford.

Lansing Area, MI, includes East Lansing.

Orange Area, NJ, includes East Orange.

Farmington Area, MI, includes Farmington Hills.

Huntington Beach Area, CA, includes Fountain Valley.

Phoenix Area, AZ, includes Glendale, Mesa, Scottsdale and Tempe.

New Haven Area, CT, includes Hamden and West Haven.

Newport News Area, VA, includes Hampton.

Miami Area, FL, includes Hialeah and Miami Beach.

Dayton Area, OH, includes Kettering.

Oklahoma City Area, OK, includes Midwest City and Norman.

Arlington Heights Area, IL, includes Mt. Prospect.

Little Rock Area, AR, includes North Little Rock.

Houston Area, TX, includes Pasadena.

Roseville Area, MI, includes St. Clair Shores.

San Jose Area, CA, includes Santa Clara.

UNITED STATES (Cont.'d)

City Listings

Warren Area, MI, includes Sterling Heights.

Bridgeport Area, CT, includes Stratford.

Milwaukee Area, WI, includes Waliwatosa and West Allis.

Wayne Area, MI, includes Westland.

Grand Rapids, MI, includes Wyoming.

VIRGIN ISLANDS

The Virgin Islands estimated the total number of subscriber lines in service as well as the breakdown of that figure into business and residence subscriber lines.

Zone 2 - Africa

ALGERIA

Algeria did not report the percentage of ISD calls.

Algeria did not report population or main telephones for each of its principal cities.

Algeria supplied no information pertaining to business telephones, residence telephones, coin box telephones, public telephone stations, and subscriber lines.

BOPHUTHATSWANA

South Africa declared the Republic of Bophuthatswana independent on December 6, 1977.

Bophuthatswana did not report any principal city data.

Bophuthatswana did not report data on public telephone stations.

No data were reported measuring long distance telephone traffic.

BURUNDI

Burundi did not give a complete breakdown of total telephones by type of switching.

The telephone counters in Burundi make no distinction between regional and long distance calls; so no data are provided for these categories. International outgoing calls are reported as "chargeable minutes" for the period of January 1, 1982, through December 31, 1982.

Burundi did not supply information pertaining to the most frequently called countries.

Burundi did not report total telephones in each of its principal cities. The main telephone data are reported by Burundi's telecommunications department as installed (in service) telephones.

Burundi did not supply total figures for coin box telephones and public telephone stations; nor did they supply the number of coin box telephones capable of originating international calls.

CISKEI

South Africa declared the Republic of Ciskei independent on December 4, 1981.

The data for local pulse metered calls include long distance pulse metered data. All other local and long distance traffic is reported together as manual trunk calls. Data measuring international outgoing calls are not available.

CISKEI (Cont.'d)

Ciskei was unable to report any international service information (% of ISD calls, most frequently called countries, etc.).

Ciskei did not report the number of coin box telephones and public telephone stations capable of originating international calls.

CONGO

Congo did not give a breakdown of total telephones by type of operation.

All population data were taken from the 1974 census.

Total telephones, main telephones, extension telephones, PBX telephones, and subscriber lines were not broken down in terms of business and residence telephones. Congo supplied no information pertaining to coin box telephones and public telephone stations.

Congo did not report the total number of telephones in its principal cities.

Some of the data were reported inconsistently.

EGYPT

No information was reported pertaining to long distance telephone traffic. International outgoing traffic is reported as calls.

Egypt did not report population or total telephones for its principal cities.

No information was provided pertaining to main telephones, extension telephones, PBX telephones, business telephones, residence telephones, coin box telephones, public telephone stations, and subscriber lines.

ETHIOPIA

Ethiopia did not report the percentage of ISD calls.

Ethiopia estimated all population data. The population of Wonji is included in the figure for Shoa.

Ethiopia did not report the number of coin box telephones capable of originating international calls.

GABON

Gabon did not provide information on the number of local and long distance calls.

The population data for principal cities were taken from the 1980 census.

GABON (Cont.'d)

The population figure for the whole country was taken from Countries of The World and Their Leaders Yearbook 1982, published by Gale Research Company: Detroit, Michigan.

Gabon did not provide 1981 data for main telephones in principal cities, extension telephones, PBX telephones, coin box telephones, and public telephone stations or any breakdown of these categories by business and residence telephones.

Gabon did not report the percentage of ISD calls.

GHANA

Ghana reported that the following information is not available: The number of local and long distance metered pulses; the number of extension telephones PBX telephones, and subscriber lines in service or any further breakdown of these categories; and the total number of business and residence telephones.

GUINEA-BISSAU

Guinea-Bissau supplied data for the following categories only: manual telephones; number of calls; most frequently called countries; population (total census as well as principal city figures); total number of telephones in each principal city; and total number of extension and PBX telephones (reported as a combined figure).

Guinea-Bissau reported that all long distance calls are treated as local calls. The telephone conversation figures represent 1982 data.

Although no specific figures were given, Guinea-Bissau did report their telecommunications system to be a semi-automatic type equipped with one transit exchange.

The city of Bissau, with 2,520 total telephones, is reported to be the "transit exchange."

KENYA

The local pulse metered data include long distance metered units. The balance of the local telephone conversations is reported as untimed calls. The remaining long distance traffic is measured in terms of timed calls. All international outgoing calls are manually handled.

Kenya did not supply system information in the following categories: extension telephones; PBX telephones; residence telephones; business telephones; coin box telephones (referred to in Kenya as rented coin box); and public telephone stations (referred to as public call office).

MALI (formerly Sudanese Republic)

Metered pulse data are unavailable for local and long distance traffic. Long distance traffic is measured in terms of calls. Mali supplied no data for local calls. The bulk of international outgoing traffic is reported in metered pulses. The balance of international outgoing calls are either semi-automatic or manually handled and measured in terms of minutes.

Mali did not report the number of coin box telephones or public telephone stations capable of originating international calls.

MOROCCO

Morocco was unable to break down total telephones by type of switching.

Morocco's data for long distance pulse metered calls include international pulse metered call data.

Morocco was unable to supply any system information for the following categories: extension telephones; PBX telephones; coin box telephones; and public telephone stations. They supplied total figures only for main telephones, subscriber lines in service, business telephones, and residence telephones.

MOZAMBIQUE

Mozambique did not supply total telephones or population data for the principal cities. Mozambique was unable to supply any information pertaining to the number of business and residence telephones; nor did they report the number of coin box telephones capable of originating international calls.

Mozambique did not report the percentage of ISD calls.

NAMIBIA (Southwest Africa)

Namibia's data are reported as of April 1, 1981, through March 31, 1982.

Some of the local traffic is reported as estimated calls. Long distance data are also measured in terms of calls. The international outgoing pulse metered data measure "ovs. calls." All other international outgoing traffic is reported in terms of calls to overseas countries or calls to certain African countries.

Namibia did not report international service information for this year's edition.

The total census figure represents 1980 data.

Namibia did not provide information on the number of subscriber lines in service or the total number of coin box telephones, and much of the system information they did report is inconsistent.

NIGERIA

Nigeria's telecommunications system operates on semi-automatic switching.

Nigeria did not supply population data for its principal cities (with the exception of estimated figures for Ibadan and Lagos).

Nigeria estimated the total number of coin box telephones.

Some of the data were reported inconsistently.

REUNION

Reunion reported all local, long distance, and international telephone traffic in a single figure. They did not report the percentage of ISD calls or the most frequently called countries.

Reunion provided no information pertaining to extension telephones, PBX telephones, or business and residence telephones; nor did they report the number of coin box telephones or public telephone stations.

REPUBLIC OF SOUTH AFRICA

All data are reported as of March 31, 1983.

Local pulse metered data measure calls inland and to other African countries. The long distance figure represents calls made to Bophuthatswana, Ciskei, South West Africa, Transkei, and Venda. The international outgoing pulse metered data measures overseas traffic only. All other international data measure calls overseas and to African countries excluding Bophuthatswana, Ciskei, South West Africa, Transkei, and Venda.

South Africa estimated all population data.

The PBX total figure represented PBX and PABX lines and extensions.

The coin box telephones and public telephones stations in South Africa are capable of originating international calls to certain countries in Africa only.

Johannesburg's data include the Witwatersrand Area.

ST. HELENA

St. Helena reported that the installation of an automatic telephone system will be completed in April 1983. More information will be given after the system is in commission. For this year's edition they reported total telephones only.

SWAZILAND

Swaziland's data pertaining to the number of local calls completed during the year include all long distance traffic.

Swaziland was unable to subdivide PBX telephones into business and residence telephones.

Swaziland did not report the percentage of ISD calls.

Swaziland reported no information pertaining to coin box telephones.

TANZANIA

The total census figure for Tanzania was taken from Countries of the World and Their Leaders Yearbook 1982, published by Gale Research Company: Detroit, Michigan.

Tanzania was unable to subdivide total telephones into main, extension, and PBX telephones or to give any breakdown within those categories. They also did not supply any information pertaining to subscriber lines in service.

Tanzania did not report the percentage of ISD calls.

ZAMBIA

The data for local and long distance telephone traffic are reported as "calls."

Zambia did not report the percentage of ISD calls.

Zambia reported no information pertaining to public telephone stations.

Zone 3 and 4 - Europe

ANDORRA

The datum for local telephone conversations is an approximate figure of the number of calls. The long distance figure represents calls to Spain and France. All international calls are made in transit via Madrid and Paris.

Andorra did not provide the total number of telephones in each of its principal cities.

Andorra was unable to give a breakdown of total telephones, main telephones, extension telephones, or subscriber lines by number of business and residence telephones (or lines). Andorra did report the number of coin box telephones capable of originating international calls, but they gave no other information pertaining to coin box telephones or public telephone stations.

AUSTRIA

The metered pulse data include local, long distance, and international traffic (one pulse in local traffic = 72 seconds; 394, 728.478 tax-hours). All other long distance traffic is measured in terms of the number of calls set up by the operator. All other international outgoing calls are measured in terms of minutes.

Austria was unable to supply any information pertaining to business and residence telephones or to subscriber lines. Austria did report the number of coin box telephones capable of originating intenational calls, but they gave no other data pertaining to coin box telephones or public telephone stations.

BELGIUM

Local traffic is measured in terms of calls. Long distance calls are measured in metered pulses at a rate of 1.4 pulses per minute. The bulk of international traffic is also measured in metered pulses but at a rate of 4.8 pulses per minute. All other international traffic is reported as calls put through by an operator.

Belgium's administration makes no distinction between residence and business subscribers.

Belgium did not report the total number of coin box telephones or public telephone stations.

CYPRUS

The local pulse metered data include local and long distance subscriber automatic trunk dialing. All other long distance traffic is reported as three-minute calls. Most international calls are measured in metered pulses. All other international traffic is reported as metered pulses for semi-automatic calls.

CYPRUS (Cont.'d)

No data are reported for the towns of Famagusta and Kyrenia. They are still under Turkish army occupation.

Cyprus was unable to give a breakdown of total telephones, main telephones, and extension telephones by the number of business and residence telephones.

DENMARK

Denmark's data include the Faroe Islands and Greenland.

Denmark did not report any data pertaining to business and residence telephones. Denmark did report the total number of coin box telephones, but they did not supply any further information for coin box telephones or public telephone stations.

FINLAND

Finland was unable to give a breakdown of total telephones by type of switching.

All telephone traffic that is not measured in metered pulses is reported as "conversations."

Finland did not report any data pertaining to business and residence telephones. Finland supplied the total number of coin box telephones and public telephone stations, but they did not report how many of each are capable of originating international calls.

FRANCE

Local, long distance, and international metered pulse data are all reported together in a combined total. All other international traffic is measured in terms of "paid minutes."

France did not report the percentage of ISD calls.

France did not supply population data for principal cities. The total number of telephones in Paris is also not reported.

France did not report any data pertaining to business and residence telephones. They did report the total number of coin box telephones and public telephone stations, but they did not report how many of each are capable of originating international calls.

FEDERAL REPUBLIC OF GERMANY

All telephone traffic is recorded as number of calls instead of number of pulses.

Data are reported for cities with more than 200,000 inhabitants and include public telephone stations.

The number of extension telephones and PBX telephones is reported in a combined figure. The Federal Republic of Germany uses different definitions, making a breakdown impossible. The number they reported contains the number of extensions with authorized access to exchange lines. These are extension stations that are connected to post-owned, subscriber-owned, or private PBXs and are able to set up calls to the public network, i.e., to main stations and other extensions with access to exchange lines. Second telephone sets for main stations, extension stations, and PBXs are, however, not included.

The Federal Republic of Germany makes no distinction between business telephones and residence telephones.

All data reported are as of December 31, 1981.

GERMAN DEMOCRATIC REPUBLIC

The German Democratic Republic was unable to give any information pertaining to business and residence telephones other than the number of main business telephones and the number of main residence telephones.

GIBRALTAR

No data measuring long distance telephone traffic were reported.

Gibraltar reports that international direct dialing and local call metering were introduced on October 1, 1982. The effect of charging subscribers for local calls has been that the number of local calls for the year has decreased by 12%, but the international traffic has increased by 14% as the result of the I.D.D. stimulus.

No information was provided for Gibraltar's principal cities.

GREECE

Greece estimated all pulse metered data. All other telephone traffic is measured in terms of calls.

The total census figure is an estimation.

Greece reported the number of business and residence subscriber lines and gave an estimation of the number of main business and residence telephones, but they did not supply a breakdown of business and residence telephones for any other categories.

GUERNSEY - CHANNEL ISLANDS

Data pertaining to the most frequently called countries are unavailable. TWT's publication staff recommends referring to the United Kingdom's data for an indication of Guernsey's international calling pattern.

Guernsey was unable to provide any information pertaining to business and residence telephones.

Guernsey reports that coin box telephones and public telephone stations have international call origination capability for Charge Bands 1, 2, and 3 only.

HUNGARY

Hungary supplied no data on coin box telephones and reported only a total number for public telephone stations. They gave no information pertaining to the number of subscriber lines in service.

ICELAND

Iceland provided no information pertaining to main telephones, extension telephones, business telephones, residence telephones, or public telephone stations.

Iceland did not report the percentage of ISD calls.

IRELAND

The local and long distance metered pulse data are combined in a single figure, which is based on national calls and calls made to the United Kingdom. All other local and long distance traffic is reported in a single figure, which represents calls via an operator and excluding those to the United Kingdom. The international metered pulse data exclude calls made to the United Kingdom. The remaining international traffic is reported as calls via an operator and includes calls to the United Kingdom.

Ireland reported the number of business and residence main telephones and subscriber lines, but they did not supply a breakdown of business and residence telephones for any other categories. Ireland did supply the total number of public telephone stations, but they gave no other information pertaining to coin box telephones or public telephone stations.

ITALY

The data pertaining to Italy's local long distance and international telephone traffic include data for the Republic of San Marino.

Italy's total population figure is taken from the 12th General Population Census of October 25, 1981.

JERSEY - CHANNEL ISLANDS

Jersey listed the United Kingdom as the most frequently called country but did not list any other countries after that.

Jersey did not supply any data pertaining to extension or PBX telephones and was unable to subdivide total telephones into business and residence telephones.

LIECHTENSTEIN

Liechtenstein supplied no international service information. Liechtenstein is represented abroad by Switzerland. TWT's publication staff, therefore, recommends referring to Switzerland's data for an indication of Liechtenstein's international calling pattern (most frequently called countries).

Leichtenstein reported no data for coin box telephones, public telephone stations, and subscriber lines.

LUXEMBOURG

Long distance and international telephone traffic is reported in terms of "messages." No data were reported measuring local traffic.

All data on total telephones by type of switching are estimates.

Luxembourg supplied no system information other than that pertaining to coin box telephones and public telephone stations. (Nothing was reported for main telephones, extension telephones, PBX telephones, subscriber lines, or business and residence telephones.)

MALTA

Malta reports that all of their telephones are operated by Para-Statal Corp.

Local telephone traffic is reported as "metered calls." No measure of long distance traffic is reported.

Private branch exchange data are included in "extension to main telephones" count.

Malta estimated the number of main business and main residence telephones but supplied no other business and residence breakdowns.

Malta did not report the number of coin box telephones capable of originating international calls.

Malta did not report the number of main telephones in Valletta.

MONACO

Monaco reported local and long distance telephone traffic together in a single figure.

Monaco supplied no information pertaining to coin box telephones, public telephone stations, or subscriber lines.

Monaco did not report the percentage of ISD calls.

NETHERLANDS

The Netherlands estimated the number of EMSS and ESS telephones. They also estimated the local and long distance metered pulse data.

All business telephone counts include telephones on the "mixed" market (telephones in use by households with professional business occupations).

Amsterdam Area includes Diemen.

'S-Gravenhage Area includes Rijswijk and Voorburg.

Haarlem Area includes Bloemendaal en Heemstede.

Leiden Area includes Leiderdorp and Oegstgeest.

Rotterdam Area includes Schiedam.

Utrecht Area includes de Bilt.

NORWAY

Norway did not give a breakdown of automatic telephones by EMSS and ESS.

Local and long distance metered pulse data are combined in a single figure. All other local and long distance traffic is reported as number of calls. All international outgoing traffic is measured in terms of the number of chargeable minutes.

Norway did not supply any information pertaining to business and residence telephones; nor did they report the number of coin box telephones and public telephone stations capable of originating international calls.

Norway did not report the number of main telephones in the principal cities.

POLAND

Poland supplied no information on local telephone traffic.

Poland did not report the number of main telephones in the principal cities.

Poland did not report the total number of public telephone stations or the number of coin box telephones capable of originating international calls.

PORTUGAL

Local and long distance telephone data, except that measured in metered pulses, are reported as number of calls. All international outgoing traffic that is not pulse metered is reported as "paid minutes."

Portugal reported no information pertaining to business and residence telephones. Portugal did not supply the number of coin box telephones and public telephone stations capable of originating international calls.

The total population figure was taken from the 1981 census.

SAN MARINO

Data pertaining to San Marino's local, long distance, and international telephone traffic are included in Italy's figures. San Marino did not report any international service information. For an indication of San Marino's calling patterns, refer to Italy's data.

The city of San Marino is the capital of the Republic of San Marino. Serraville is the only other town in the Republic.

SPAIN

The long distance and international telephone traffic, which is not measured in terms of metered pulses, is reported as manually operated calls.

The population of Palma de Mall is not given.

SWEDEN

All telephone traffic data are reported from July 1, 1981, through June 30, 1982. The local and long distance metered pulse data are reported together in a combined figure. All other long distance and international data are reported as the number of conversations handled by an operator.

Sweden did not report any data pertaining to public telephone stations; nor did they report the number of coin box telephones capable of originating international calls.

SWITZERLAND

Switzerland did not report the percentage of ISD calls.

Switzerland supplied no information pertaining to coin box telephones, public telephone stations, and subscriber lines.

UNITED KINGDOM

All data for United Kingdom are as of March 31, 1982.

All local, long distance, and international telephone traffic is reported as number of effective calls.

The United Kingdom estimated all city population data as of June 1982.

YUGOSLAVIA

Yugoslavia did not report the percentage of ISD calls.

Yugoslavia did not report the number of main telephones in each of its principal cities.

Some of the data were reported inconsistently.

Zone 5 - South and Central America

ARGENTINA

The local pulse metered data include long distance metered pulses. All other long distance traffic is reported as completed calls via an operator -- not including calls with long distance dialing. The international metered pulse data represent outgoing calls completed via satellite and neighboring countries.

Argentina did not report the percentage of ISD calls.

Argentina estimated the city population data.

Public telephone stations include public telephones with attendants, RD (Rotary Dial) telephone booths, and pay phones. Argentina did not report the number of coin box telephones and public telephone stations capable of originating international calls.

Argentina reported having manual telephones, automatic telephones, and a third category of telephones that includes private exchanges provided by third parties.

BELIZE

The local metered pulse data include long distance metered pulses. All international outgoing traffic is reported as calls (via Belize telecommunication authority or cable and wireless).

Belize did not report the percentage of ISD calls.

Belize provided no information pertaining to coin box telephone and public telephone stations.

BOLIVIA

Bolivia did not report any international service information (most frequently called countries, percentage ISD calls, etc.) for this edition.

The total census figure is taken from 1980 data.

Bolivia did not report total telephones or population for each of its principal cities.

Bolivia supplied no system information (main telephones, extension telephones, PBX telephones, coin box telephones, public telephone stations, business telephones, residence telephones, and subscriber lines).

No data were reported measuring local telephone traffic. Long distance and international telephone traffic is reported as minutes.

BRAZIL

Brazil provided no data pertaining to coin box telephones, public telephone stations, and subscriber lines.

CHILE

Chile's telephones are privately operated with major government capital investment.

All local and long distance telephone traffic, which is not measured in metered pulses, is reported as calls. The figures submitted in prior years correspond to attempts.

The number of coin box telephones and public telephone stations capable of originating international calls is not available.

Chile did not report the percentage of ISD calls.

COLOMBIA

Long distance automatic traffic is measured in metered pulses. All other long distance traffic is semi-automatic and is reported as calls. No data are reported for local calls.

Colombia did not provide the total number to telephones in each of its principal cities.

Colombia supplied no data pertaining to public telephone stations.

COSTA RICA

Local and long distance telephone data are in metered pulses. All international outgoing traffic is reported as toll ticketing.

The metropolitan area includes Coronado, Escazu, Norte, Oeste, San Antonio, San Jose, San Pedro, Santa Ana, Sur, and Tres Rios.

CUBA

Cuba did not supply population data for its principal cities.

Cuba did not report the total number of public telephone stations or the number of coin box telephones capable of originating international calls.

No data were reported measuring local telephone traffic.

ECUADOR

Ecuador estimated the percentage of ISD calls, the total population, and the number of extension telephones.

The number of extension telephones includes telephones connected to private exchanges.

No information is available on PBX telephones, coin box telephones, or public telephone stations.

No data were reported measuring local and long distance telephone traffic.

EL SALVADOR

No measurement of international telephone traffic was given.

El Salvador reported no information for extension telephones, PBX telephones, public telephone stations, and coin box telephones. Main telephones and subscriber lines were subdivided into business and residence, but no other categories were.

FRENCH GUIANA

All local, long distance, and international telephone traffic is reported in a combined figure.

For this year's edition, French Guiana did not report the percentage of ISD calls or the most frequently called countries.

Other than the total number of main telephones, the total number of coin box telephones, and the total number of subscriber lines in service, French Guiana reported no system information (nothing on extensions, PBX telephones, business telephones, residence telephones, and public telephone stations).

GUADELOUPE

Local, long distance, and international telephone traffic is reported in a combined figure.

Guadeloupe did not report the percentage of ISD calls or the most frequently called countries.

Guadeloupe reported no data on main telephones, extension telephones, PBX telephones, business telephones, or residence telephones. They also did not supply the number of coin box telephones and public telephone stations capable of originating international calls.

GUATEMALA

The local metered pulse figure is that reported for the metropolitan area in 1982. The long distance metered pulse figure is also reported for 1982.

Guatemala supplied no data pertaining to extension telephones or PBX telephones.

Guatemala did not report the total number of public telephone stations.

GUYANA

The local and long distance metered pulse data are reported in a combined total that represents districts and cities. All international outgoing traffic is reported as calls.

HONDURAS

No data are reported for local and long distance telephone traffic. All international outgoing traffic is reported as minutes.

None of the city data are reported for Sta Rosa De. The total number of telephones is not reported for any of the cities.

The Honduras did not report the total number of coin box telephones or public telephone stations; nor did they report the number of public telephone stations capable of originating international calls.

Some of the data were reported inconsistently.

MARTINIQUE

Matinique reported no data pertaining to extension and PBX telephones.

Martinique reported that it is not possible to indicate the number of pulses charged for outgoing international calls, as the accounting system only expresses the results in minutes. The rate graduations used are as follows: one basic charge every 1.3", 1.7", 3", 7".

Martinique did not report the percentage of ISD calls.

Martinique reports that its pay telephones are not capable of receiving calls. They are specialized for outgoing traffic.

NETHERLANDS ANTILLES

All telephone traffic, other than that measured in metered pulses, is reported as minutes.

The Netherlands Antilles did not report total telephones in each of its principal cities.

NETHERLANDS ANTILLES (Cont.'d)

The Netherlands Antilles did not give any information pertaining to business telephones, residence telephones, coin box telephones, and public telephone stations.

NICARAGUA

No information is reported pertaining to the measurement of local telephone traffic. International outgoing calls are reported in minutes.

Nicaragua did not supply the percentage of ISD calls.

Nicaragua did not report the total number of telephones in each of its principal cities. Population data were not reported for Penas Blancas, El Bluff, and Poneloya.

Nicaragua provided no information pertaining to main telephones, extension telephones, PBX telephones, business telephones, residence telephones, coin box telephones, public telephone stations, and subscriber lines.

PANAMA

No data measuring long distance telephone traffic were reported.

The principal city population data are based on the 1980 census.

Panama reported no information pertaining to public telephone stations; nor did they report the number of coin box telephones capable of originating international calls.

Panama reports that, during 1982, important developments in installing new telephone lines and extending the existing ones resulted in a gain of 11,769 telephones in that year. Additional equipment was installed in several telephone exchanges, making it possible to integrate new areas into the international direct dialing service.

PERU

The operation of the telephone system is handled by a state-owned private-law company.

No local telephone traffic data are reported. Long distance and international telephone data are reported as effective calls.

Peru did not supply the percentage of ISD calls.

The total census figure is as of July 12, 1981.

The population given for Lima corresponds to the area served by Compania Peruana de Telefonos S.A.

PERU (Cont.'d)

Peru did not report the number of coin box telephones capable of originating international calls.

Peru shows a 73% decrease in telephones from last year to this year; so please interpret the data with caution.

SURINAME

Suriname did not give a breakdown of total telephones by type of switching.

International outgoing telephone traffic is reported as minutes. No long distance telephone data were reported.

Suriname did not report the percentage of ISD calls.

Suriname did not report any city data.

Suriname did not supply any information pertaining to subscriber lines or public telephone stations; nor did they report the number of coin box telephones capable of originating international calls.

URUGUAY

All telephone traffic information, other than that measured in metered pulses, is reported as calls.

Uruguay reported information pertaining to main telephones and subscriber lines (including a breakdown of each category by business and residence telephones), but they supplied no other system information.

VENEZUELA

Venezuela reported that extensions are not included in the total telephone figure.

Venezuela did not report the total number of telephones in each of its principal cities.

Venezuela did not supply information pertaining to extension telephones, PBX telephones, or business and residence telephones (other than in a breakdown of subscriber lines). Venezuela reported that the data they did supply are not official figures. They are the most up-to-date ones available as of December 31, 1981, and are taken from a non-official bulletin issued by the Central Office of Statistics and Data Processing. With regard to the questions that have not been answered, Venezuela reports that proper measures will be taken so that the information can be included in subsequent questionnaires.

No data measuring local and long distance telephone traffic were reported.

Zone 6 - South Pacific

AMERICAN SAMOA

No long distance or international telephone traffic data were reported.

American Samoa did not supply population data for its principal cities. They supplied no information pertaining to coin box telephones and public telephone stations.

Some of the data were reported inconsistently.

BRUNEI

All international outgoing telephone traffic is reported as CAMA paid minutes (CAMA -- Centralized Automatic Message Accounting).

The total population figure was taken from the national census of July 1981.

The total number of PBX telephones includes extension telephones. No information was supplied pertaining to business and residence telephones.

COCOS (KEELING) ISLAND

The Department of Aviation maintains only 1 PABX at Cocos Island, which has a capacity of 180 extensions and is used as the main exchange for the islands. The H/F radio link system links the Cocos telephones to Australia by manual selection.

Cocos Island reported no local, long distance, or international telephone traffic data; nor did they report the most frequently called countries.

Cocos Island supplied no information pertaining to public telephone stations or subscriber lines.

COOK ISLANDS

No data are available for local and long distance telephone traffic.

Cook Islands reported data for its "principal islands."

Cook Islands estimated information pertaining to PBX telephones.

FIJI

Data are not available for local and long distance telephone traffic. All international outgoing traffic is reported as "paid minutes."

Fiji did not supply the percentage of ISD calls.

FIJI (Cont.'d)

Fiji reported no information pertaining to business and residence telephones; nor did they report the number of coin box telephones and public telephone stations capable of originating international calls.

FRENCH POLYNESIA

No data were reported for long distance telephone traffic. All local traffic, which is not measured in metered pulses, is reported as "paid minutes." All international outgoing traffic, which is not measured in metered pulses, is reported as "chargeable minutes."

The data for Papeete include Mahina and Punaauia

French Polynesia reported no information pertaining to business and residence telephones or subscriber lines; nor did they report the total number of coin box telephones and public telephone stations.

GUAM

No data were available measuring local, long distance, and international telephone traffic. Guam did not supply the percentage of ISD calls or the most frequently called countries.

Guam reported no principal city data.

Guam shows a 49% decrease in telephones from last year to this year; so please interpret the data with caution.

INDONESIA

Indonesia reported that local and SLDD calls are measured in pulses. Manual trunk calls (long distance traffic) are reported as calls. The bulk of international outgoing traffic is semi-automatic and is reported as calls. ISD calls, however, are measured in minutes, and Indonesia reported that 541,000 minutes were recorded.

Indonesia reported no information pertaining to business and residence telephones. Indonesia did not report the number of coin box telephones capable of originating international calls.

Indonesia did not report the total number of telephones in each of its principal cities.

KIRIBATI

No data were available measuring local and long distance telephone traffic.

Kiribati did not supply the percentage of ISD calls.

Kiribati supplied no information pertaining to coin box telephones.

MALAYSIA

The total population figure is taken from Countries of the World and Their Leaders Yearbook 1982, published by Gale Research Company: Detroit, MI, USA.

No population data were reported for Kuala Lumpur, Penang, Ipon, and Petaling Jaya.

Malaysia did not report the number of public telephone stations capable of originating international calls.

No data were reported for long distance telephone traffic.

NEW ZEALAND

No data were reported measuring local telephone traffic.

New Zealand did not subdivide extension telephones or PBX telephones into business and residence telephones.

NIUE

Niue did not give a breakdown of total telephones by type of operations.

Niue reported no data measuring local and long distance telephone traffic. International telephone traffic is reported as "paid minutes."

Niue provided no information pertaining to extension telephones, main telephones, PBX telephones, coin box telephones, public telephone stations, business telephones, residence telphones, and subscriber lines.

NORFOLK ISLAND

No data were reported measuring local and long distance telephone traffic. International outgoing telephone traffic is reported as minutes.

Norfolk Island did not supply the percentage of ISD calls.

Norfolk Island provided no data pertaining to coin box telephones.

NORTHERN MARIANAS

No data were available pertaining to local and long distance telephone traffic. International outgoing traffic is reported as messages.

The population of Airport is included in the figure for Susupe.

No information is available pertaining to coin box telephones and public telephone stations.

PAPUA NEW GUINEA

No data were reported measuring long distance telephone traffic.

Papua New Guinea reported no information pertaining to business and residence telephones.

PHILIPPINES

No data were reported measuring local telephone traffic. The Philippines estimated the long distance and international metered pulse data. They also estimated all population data, the number of residence and business subscriber lines, and the number of business and residence PBX telephones.

The Philippines reported no information pertaining to coin box telephones; nor did they report the number of public telephone stations capable of originating international calls.

PITCAIRN ISLAND

Pitcairn Island reported that no recorded data are available measuring local and and long distance telephone traffic. They also reported that they have no international telephone service

The population of Adamstown was reported as 54.

SINGAPORE

Local telephone traffic is reported as "flat rate" service. Long distance metered pulse data are reported as "subscriber trunk dialed" (STD) calls.

Some of the data were reported inconsistently.

SOLOMON ISLANDS

Solomon Islands reported that they have no metering of calls at the present time. No data were reported measuring local and long distance telephone traffic.

No city data were reported for Kirakira.

Solomon Islands did not report the total number of public telephone stations.

THAILAND

Thailand's data are reported based on their fiscal year (October 1 through September 30).

Long distance metered pulse data are included in the figure reporting local metered pulses.

THAILAND (Cont.'d)

Thailand did not supply the percentage of ISD calls.

Thailand reported the total number of "local coin box telephones" but did not report the number capable of originating international calls.

TOKELAU ISLANDS

Tokelau is a territory of New Zealand and is administered from Apia, Western Samoa, The Tokelau Islands do not have a telephone system. They do, however, have three radio-telephone sets for direct communication with Western Samoa. These sets are located at the islands' administrative offices and are available for limited use by the small population.

TONGA

There are no principal cities in Tonga. Their telephone system is on the island of Tongatapu and has three telephone exchanges.

Tonga reported no information pertaining to business and residence telephones or subscriber lines. Coin box telephones and public telephone stations are capable of originating international calls on a "collect" basis only.

TUVALU

No data are reported measuring long distance telephone traffic.

Tuvalu reported no information pertaining to coin box telephones and public telephone stations.

WALLIS AND FUTUNA

Wallis and Futuna have no data available measuring local, long distance, and international telephone traffic.

Wallis and Futuna did not supply the percentage of ISD calls. They reported no data pertaining to business telephones, residence telephones, coin box telephones, or public telephone stations.

Wallis and Futuna did not report the total number of telephones on each island.

WESTERN SAMOA

No data were reported measuring local and long distance telephone traffic. International outgoing telephone traffic is reported as "paid minutes."

Western Samoa did not report the number of coin box telephones capable of originating international calls.

BANGLADESH

The Telegraph and Telephone Board of Bangladesh regretted the nonavailability of data for the January 1, 1981, edition.

No data were reported measuring local and long distance telephone traffic.

Bangladesh did not supply the percentage of ISD calls.

Bangladesh reported no information pertaining to business and residence telephones, or public telephone stations; nor did they report the number of coin box telephones capable of originating international calls.

Some of the data were reported inconsistently.

TAIWAN, REPUBLIC OF CHINA

Taiwan estimated the number of EMSS and ESS telephones.

All international outgoing telephone traffic is reported as minutes.

Taiwan did not subdivide PBX telephones into business and residence telephones; nor did they report the total number of public telephone stations.

HONG KONG

Hong Kong reported that all local and long distance calls are free and not metered in any way. International manual pay and collect calls are measured in metered pulses. All other international outgoing traffic is reported as direct dialed calls.

The main and extension telephone data include PBX telephones.

Hong Kong reported no information pertaining to public telephone stations; nor did they report the number of coin box telephones capable of originating international calls.

JAPAN

Japan's data are as of March 31, 1982. Nippon Telegraph and Telephone Public Corporation (NTT) supplied the data, but Wire-broadcast Telephones Exchange (WTE) data are included in the number of telephones.

No data were reported measuring local and long distance telephone traffic.

Japan did not report the number of main telephones in each of its principal cities.

JAPAN (Cont.'d)

Japan did not report total telephones, main telephones, extension telephones, or PBX telephones in terms of business and residence telephones; nor did they report the number of public telephone stations capable of originating international calls.

Japan reported that the number of coin box telephones and public telephones stations represents the number of "pink coin telephones," which are subscriber lines -- unable to be used without depositing a coin but able to be used by handling a subsciber's key without subscriber's depositing a coin.

Japan reported that their subscriber line data include group telephones (Centrex type).

The number of EMSS telephones includes ESS telephones.

REPUBLIC OF KOREA

All international outgoing traffic is reported as calls.

Korea reported that ISD calling will be introduced on August 1, 1983.

Korea did not report the number of coin box telephones and public telephone stations capable of originating international calls.

MACAO

Macao reports that the subdivision of total telephones into the various categories is approximate information, as records have not previously been kept.

No data were reported measuring local and long distance telephone traffic.

Zone 9 - Middle East and Southeast Asia

BAHRAIN

No data were reported measuring long distance telephone traffic. International outgoing telephone traffic is reported as minutes.

Bahrain reported no information pertaining to business and residence extension telephones, coin box telephones, and public telephone stations.

INDIA

India did not report the percentage of ISD calls or the most frequently called countries for this year's edition.

All population data are as of March 31, 1981.

India reported no information pertaining to business and residence telephones, coin box telephones, public telephone stations, and subscriber lines.

India reported no data measuring international outgoing traffic.

IRAN

No data were reported measuring local and long distance telephone traffic. International outgoing telephone traffic is reported as minutes.

Iran did not report the percentage of ISD calls.

Iran did not report main telephones or population for its principal cities.

Iran reported no information pertaining to main telephones, extension telephones, PBX telephones, coin box telephones, public telephone stations, business and residence telephones, and subscriber lines.

ISRAEL

Israel reported no information pertaining to extension telephones, PBX telephones, and subscriber lines. They estimated the number of business and residence main telephones but reported no other business/residence telephone information. They did not report the total number of public telephone stations or the number of coin box telephones capable of originating international calls.

Some of the data were report inconsistently.

KUWAIT

Kuwait has adopted a flat rate system; therefore, they have no metering of calls. They reported no data for local and long distance telephone traffic. International outgoing traffic is reported as "messages."

Kuwait reported that their country is a single zone area -- it has no principal cities.

Kuwait did not report the number of coin box telephones capable of originating international calls.

MALDIVES

Maldives did not give breakdown of total telephones by type of operation.

No data were reported measuring local and long distance telephone traffic.

Maldives did not report the percentage of ISD calls.

Maldives reported no principal city data.

Maldives reported no information pertaining to coin box telephones or subscriber lines.

Some of the data were reported inconsistently.

PAKISTAN

No data were reported measuring local telephone traffic.

Pakistan did not report the percentage of ISD calls.

Pakistan did not report the number of main telephones in each of its principal cities. All population data are 1982 figures.

When Pakistan reported the number of main, extension, and PBX telephones, they based their numbers on the total number of "working" telephones. Some of their data, therefore, appear to be inconsistent.

Paksitan reported no information pertaining to business and residence telephones, coin box telephones, or subscriber lines; nor did they report the number of public telephone stations capable of originating international calls.

QATAR

Qatar has a national flat rate tariff; so all calls within Qatar are free. Therefore, no measurement of local and long distance telephone traffic is made. International calling is based on duration rather than metered pulses. This has been effective since July 31, 1982.

QATAR (Cont.'d)

Qatar did not report population data for its principal cities. No city data were reported for Dukhan.

Qatar provided no information pertaining to main telephones, extension telephones, PBX telephones, coin box telephones, public telephone stations, and business and residence telephones (other than a breakdown of subscriber lines).

SAUDI ARABIA

Local metered pulse data include long distance metered pulses. All international outgoing telephone traffic is reported as calls.

The total population figure is taken from Countries of the World and Their Leaders Yearbook 1982, published by Gale Research Company: Detroit, Michigan, USA.

Saudi Arabia estimated the number of extension telephones in the total figures for the country, as well as in their city figures. Saudi Arabia provides primarily the main telephone line; customers provide their own extension telephones and PBX equipment. Therefore, no accurate record exists.

SRI LANKA

Sri Lanka did not report main telephones in each of its principal cities.

Sri Lanka provided no data pertaining to business and residence telephones.

SYRIA

Local telephone traffic is reported as calls. Long distance and international telephone traffic is reported as minutes. Syria estimated all their telephone traffic data.

Syria provided no information pertaining to coin box telephones, public telephone stations, and subscriber lines.

TURKEY

Turkey did not report the percentage of ISD calls.

Turkey provided no information pertaining to coin box telephones and public telephone stations.

UNITED ARAB EMIRATES

No data were reported measuring local telephone traffic. Long distance and international telephone traffic is reported as minutes.

UNITED ARAB EMIRATES (Cont.'d)

The United Arab Emirates estimated the number of EMSS and ESS telephones; all population data; the total number of telephones in Abu Dhabi; and the number of extension, PBX, business, and residence telephones.

SELECTED DEFINITIONS USED FOR 1982

AUTOMATIC SWITCHING. This refers to equipment in which switching operations are performed by electrically controlled apparatus without the intervention of operators.

> ELECTROMECHANICAL CONTROL, (EMSS). This refers to any automatic electromechanical switching system control using relays and/or electromechanical switches to perform logic and refers also to the types of control employed in the public telephones switching office to which the serving telephones are connected.
>
> ELECTRONIC CONTROL, (ESS). This refers to any automatic electronic switching system control using electronic devices to perform logic and also refers to the type of control employed in the public telephone switching office to which the serving telephones are connected.

COIN BOX TELEPHONES. Refers to a telephone set equipped with a device for collecting coins in payment for telephone calls. Coin box telephone service refers to that service offered by means of a special equipment permitting outgoing telephone calls after insertion of adequate coin(s) or token(s) and, without payment, incoming calls.

CONVERSATIONS/CALLS/TELEPHONE MESSAGES. Refers to the actual number of minutes, pulses, or other measuring units, as identified, for conversations.

EXTENSIONS TO MAIN TELEPHONE. These are telephones that are associated with and are in addition to the main telephone and are connected to the same exchange line, EXCLUDING PBX EXTENSIONS.

INTERNATIONAL CALL. Refers to any call for a destination beyond the national boundaries of the calling station.

INTERNATIONAL SUBSCRIBER DIALING (ISD). Refers to the direct calling of the calling subscriber of the distant (international) called subscriber, the switching being effected automatically. May be considered synonymous with the phrases "International Direct Dialing" and "International Direct Distance Dialing."

LOCAL CALL. Refers to any call for a destination within the local service area of the calling station.

LOCAL CALLING AREA. Refers to that area within which subscribers can be called by another subscriber, located in the same area, without incurring an extra charge. The area may be served by one or more exchanges (central offices). Local Calling Area and Exchange Area are sometimes used interchangeably.

LONG DISTANCE CALL. Refers to any call for a destination outside the local service area of the calling station.

MAIN TELEPHONES. These are telephones that are connected directly to the exchange either by an individual or shared line. It should include the principal telephone of each party on a party line. This definition excludes telephones that are manually or automatically connected to the exchange through a private branch switchboard. It also excludes extension telephones, i.e., telephones that have been added to an individual or shared line to extend the telephone service to other parts of the subscriber's home or business premises.

NUMBER OF TELEPHONES PER 100 POPULATION. Represents the total number of telephone instruments for each 100 adults and children in the reported population. These data provide a standard measurement of the telephone market (instruments and their usage) penetration by countries within geographical regions.

POPULATION. Represents the latest available census, or estimate, as reported by the respective telephone administration or company, for their country or area. Where possible for Principal Cities, telephone and population data should relate to the identical area; however, the telephone exchange areas frequently may be generally larger than the corporate areas of the cities served. Should the reporting telephone administration or company fail to supply the census data, "The World's Telephones" publication staff will substitute, when possible, and so note the use of United Nation's census data in order to provide a more complete report.

PRINCIPAL CITIES. Within the United States, a principal city is one with a population in excess of 50,000. For other countries and areas, the definition varies, and principal cities are designated by each foreign telephone administration or company, according to different criteria. In most cases, the cities are the largest, most prominent - such as a capital city - or are world-renowned as vacation or tourist locations or have commercial or historical significance.

PRIVATE BRANCH EXCHANGE (PBX)/SWITCHBOARD AND ITS EXTENSIONS. These are telephones connected to the exchange through a private branch exchange switchboard. PBX trunks and switchboard positions are excluded. A switchboard is generally defined as equipment on which switching operations are performed by operators. It serves as a telephone exchange for an individual organization and has connections to a public telephone exchange.

PABX (PRIVATE AUTOMATIC BRANCH EXCHANGE.) Refers to a private telephone system that functions as small, on-premise telephone switching centers. The system permits users to automatically dial other users on the same exchange without requiring the involvement of the switchboard attendant or operator. The system also automatically connects the telephones of the business customer to trunks from a local central office.

PAX (PRIVATE AUTOMATIC EXCHANGE). Refers to a private non-branch exchange that is automatic, unattended, and located on a subscriber's premises. The system serves only the subscriber's stations with local and central office trunked services. Glossary of Communications, by Emerson C. Smith, published by Telephony Publishing Corporation, further states: "When equipped with an attendant's switchboard or turret it [PAX] becomes a PABX."

CENTREX/CENTREX SERVICE. The provision to subscribers, by means of a specially equipped public telephone exchange, of services normally available only in PABXs (e.g., internal dialing of PABX type, operator's desk, direct access to the network, direct dialing-in, transfer of calls).

CENTREX-C.O. is Centrex service with the switching equipment located in the Central Office.

CENTREX-CU is Centrex service with the switching equipment located on the customer's premises.

PUBLIC TELEPHONE STATION. Refers to a station available for use of the public, generally on payment of a fee, which may be deposited in a coin box or paid to an attendant.

PULSE METERED/METERED PULSES. Refers to a method of metering calls in which a message unit meter steps periodically with a frequency depending upon the charge period of the day and the distance between the two subscribers in conversation. In the United States it may be known as zone registration. (This definition is reprinted in part from the Glossary of Communications by Emerson C. Smith, published by Telephony Publishing Corporation and futher clarified by the British TELECOM; International Comparisons Group, Service and Performance of Dept. SP1.2.3.)

SUBSCRIBER. A customer, who may be an individual or an organization, that has agreed to an obligation to pay the necessary fees for the basic telephone service components and related usage.

SUBSCRIBER LINE. Refers to the telephone line connecting the exchange to the subscriber's station.

SUBSCRIBER TRUNK DIALING (STD). A system providing for trunk calls to be obtained by customer dialing and without the intervention of an operator.

TOTAL NUMBER OF TELEPHONES. Represents all telephones that can be connected through a telephone company central office exchange. This figure represents the total number of telephones in service that are available to the general public and are able to be accounted for by a telephone administration or company. This includes:

1. Main telephones (including pay telephone stations).
2. Extension telephones (to main telephones).
3. Private Branch Exchange (PBX) telephones (switchboard and its extensions).

Excluded are private intercommunicating sets and private line telephones that can be connected through a telephone company central office exchange and that do not have connection with a commercial system.

TYPE OF OPERATION. This applies to the actual operation rather than ownership. Systems that are government-owned in whole or in part may be privately operated.

GENERAL ABBREVIATIONS AND SYMBOLS

CCITT	The International Telegraph and Telephone Consultative Committee
EMSS	ElectroMechanical Switching System - Any switching system control using relays and/or electromechanical switches to perform logic.
ESS	Electronic Switching System - Any switching system control using electronic devices to perform logic.
ISD	International Subscriber Dialing (may be considered synonymous with the phrases "International Direct Distance Dialing"). Refers to the direct calling by the calling subscriber of the distant (international) called subscriber, the switching being effected automatically.
NBR.	Number
STD	Subscriber Trunk Dialing: A system providing for trunk calls to be obtained by customer dialing and without the intervention of an operator. (British Post Office Telecommunications Management Services Department.)
TWTs	The World's Telephones.

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